

— THE UNDERGRADUATE SCHOOLS —



WAKE FOREST  
UNIVERSITY

BULLETIN OF

Wake Forest College and the  
School of Business of Wake Forest University



Announcements for 2020-2021

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## THE UNDERGRADUATE SCHOOLS

### Wake Forest College *and the School of Business of Wake Forest University*

ANNOUNCEMENTS FOR 2020-2021

[www.wfu.edu](http://www.wfu.edu)

The course offerings and requirements of the undergraduate schools are continually under examination, and revisions are expected. This Bulletin presents the offerings and requirements in effect at the time of publication and in no way guarantees that the offerings and requirements will remain the same.

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# TABLE OF CONTENTS

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Home .....	5	Art History, Minor .....	55
The Academic Calendar .....	6	Studio Art, B.A. ....	56
The University .....	7	Studio Art, Minor .....	58
Buildings and Grounds .....	8	Biochemistry and Molecular Biology (BMB) .....	59
Information Systems .....	9	Biochemistry and Molecular Biology, B.S. ....	60
Libraries .....	10	Bioethics, Humanities and Medicine (BHM) .....	61
Accreditation .....	11	Bioethics, Humanities and Medicine, Minor .....	62
Wake Forest College .....	12	Biology (BIO) .....	63
Honor System .....	13	Biology, B.A. ....	68
Student Complaints .....	14	Biology, B.S. ....	69
Summary of Computing Rights and Responsibilities .....	14	Biology, Minor .....	69
Procedures .....	16	Chemistry (CHM) .....	70
Admission .....	16	Chemistry with Concentration in Biochemistry, B.S. ....	72
Student Health .....	17	Chemistry with Concentration in Materials Chemistry, B.S. ....	73
Tuition and Fees .....	18	Chemistry with Concentration in Medicinal Chemistry and Drug Discovery, B.S. ....	74
Refunds .....	20	Chemistry, B.A. ....	75
Parking .....	21	Chemistry, B.S. ....	76
Housing .....	22	Chemistry, Minor .....	77
Advising and Registration .....	23	Classics (CLA) .....	77
Examinations and Grading .....	25	Classical Languages, B.A. ....	80
Enrollment Policies and Procedures .....	26	Classical Studies, BA .....	80
Transfer Credit .....	28	Classical Studies, Minor .....	80
Financial Aid .....	30	Greek, B.A. ....	80
Special Programs .....	33	Greek, Minor .....	80
Global Programs .....	34	Latin, B.A. ....	80
Study Abroad in Affiliate Programs .....	34	Latin, Minor .....	81
Study Abroad/Away in Wake Forest Programs .....	35	Communication (COM) .....	81
Requirements for Degrees .....	38	Communication, B.A. ....	84
Majors and Minors .....	40	Communication, Minor .....	85
Departments/Programs .....	43	Computer Science (CSC) .....	85
Academic Community Engagement (ACE) .....	43	Computer Science, B.A. ....	88
African Studies (AFS) .....	43	Computer Science, B.S. ....	88
African Studies, Minor .....	44	Computer Science, Minor .....	89
American Ethnic Studies (AES) .....	44	Counseling (CNS) .....	89
American Ethnic Studies, Minor .....	45	Health and Human Services, Minor .....	90
Anthropology (ANT) .....	46	Cultural Heritage and Preservation Studies (CHP) .....	90
Anthropology, B.A. ....	49	Cultural Heritage & Preservation Studies, Minor .....	90
Anthropology, Minor .....	50	East Asian Languages and Cultures (EAL) .....	91
Art (ART) .....	50	Chinese Language and Culture, B.A. ....	93
Art History, B.A. ....	54	Chinese Language and Culture, Minor .....	94
		Japanese Language and Culture, B.A. ....	94

Japanese Language and Culture, Minor .....	95	Health Policy and Administration (HPA) .....	137
East Asian Studies (EAS) .....	95	Health Policy and Administration, Minor .....	137
East Asian Studies, Minor .....	95	History (HST) .....	138
Economics (ECN) .....	96	History, B.A. ....	145
Economics, B.A. ....	98	History, Minor .....	146
Economics, Minor .....	99	Interdisciplinary Honors (HON) .....	147
Education (EDU) .....	99	Interdisciplinary Humanities (HMN) .....	148
Elementary Education, B.A. ....	103	Interdisciplinary Humanities, Minor .....	150
Schools, Education, and Society, Minor .....	103	Interdisciplinary Major (IND) .....	150
Secondary Education, Minor .....	103	Interdisciplinary Studies, B.A. ....	150
Engineering (EGR) .....	104	Interdisciplinary Studies, B.S. ....	150
Engineering, B.S. ....	106	International Studies (INS) .....	151
Engineering, Minor .....	107	International Studies, Minor .....	152
English (ENG) .....	108	Jewish Studies .....	154
Creative Writing, Minor .....	112	Jewish Studies, Minor .....	154
English, B.A. ....	113	Journalism (JOU) .....	155
English, Minor .....	114	Journalism, Minor .....	156
Writing, Minor .....	114	Languages Across the Curriculum (LAC) .....	157
Entrepreneurship (ENT) .....	115	Latin-American and Latino Studies (LAS) .....	157
Entrepreneurship, Minor .....	117	Latin-American and Latino Studies, Minor .....	158
Environmental Program (ENV) .....	119	Linguistics (LIN) .....	160
Environmental Science, BA .....	120	Linguistics, Minor .....	161
Environment and Sustainability Studies, BA .....	121	Mathematics and Statistics (MST) .....	162
Environmental Science, Minor .....	122	Applied Mathematics, B.S. ....	165
Environmental Studies, Minor .....	122	Mathematical Business, B.S. ....	166
Film and Media Studies (FLM) .....	123	Mathematical Economics, B.S. ....	166
Film and Media Studies, Minor .....	124	Mathematical Statistics, B.A. ....	167
French Studies (FRH) .....	124	Mathematical Statistics, B.S. ....	167
French for Business, Concentration .....	127	Mathematics, B.A. ....	167
French Studies, B.A. ....	127	Mathematics, B.S. ....	167
French Studies, Minor .....	127	Mathematics, Minor .....	168
German and Russian (GER/RUS) .....	128	Statistics, Minor .....	168
German Studies, B.A. ....	131	Medieval and Early Modern Studies .....	168
German Studies, Minor .....	132	Medieval and Early Modern Studies, Minor .....	169
German, B.A. ....	132	Middle East and South Asia Studies .....	169
German, Minor .....	132	Arabic, Minor .....	171
Russian, B.A. ....	133	Middle East and South Asia Studies, Minor .....	171
Russian, Minor .....	133	Military Science (MIL) .....	173
Global Trade and Commerce Studies (GTCS) .....	133	Music (MUS) .....	175
Global Trade and Commerce Studies, Minor .....	133	Music in Liberal Arts, B.A. ....	181
Health and Exercise Science (HES) .....	134	Music Performance, B.A. ....	181
Health and Exercise Science, B.S. ....	136	Music, Minor .....	182

Neuroscience (NEU) .....	182	Salamanca 212 Program .....	224
Neuroscience, Minor .....	183	Theatre and Dance (THE/DCE) .....	225
Philosophy (PHI) .....	184	Dance, Minor .....	229
Philosophy, B.A. ....	186	Theatre, B.A. ....	229
Philosophy, Minor .....	187	Theatre, Minor .....	230
Physics (PHY) .....	187	Women's, Gender, and Sexuality Studies (WGS) .....	230
Biophysics, B.S. ....	190	Women's, Gender, and Sexuality Studies, B.A. ....	233
Physics, B.A. ....	191	Women's, Gender, and Sexuality Studies, Minor .....	234
Physics, B.S. ....	191	Other Courses .....	235
Physics, Minor .....	192	Wake Forest University School of Business .....	237
Politics and International Affairs (POL) .....	192	Accreditation .....	237
Politics and International Affairs, B.A. ....	196	Programs and Majors .....	237
Politics and International Affairs, Minor .....	197	Accountancy, B.S. ....	244
Psychology (PSY) .....	198	Business and Enterprise Management, B.S. ....	244
Psychology, B.A. ....	200	Finance, B.S. ....	245
Psychology, Minor .....	201	Mathematical Business, B.S. ....	245
Religions, Study of (REL) .....	201	Undergraduate Business Program Admission .....	246
Religious Studies, B.A. ....	205	MSA Program Admission .....	246
Religious Studies, Minor .....	207	Transfer of Credit from Other Schools .....	246
Russian and East European Studies (REE) .....	207	Requirements for Continuation .....	247
Russian and East European Studies, Minor .....	208	Requirements for Graduation .....	247
Self-Instructional Languages (SIL) .....	208	Beta Gamma Sigma, National Honor Society .....	247
Sociology (SOC) .....	208	Wake Forest College Faculty .....	248
Sociology, B.A. ....	212	School of Business Faculty .....	267
Sociology, Minor .....	213	Emeriti .....	271
Spanish and Italian (SPA/ITA) .....	213	Enrollment .....	275
Italian Language and Culture, Minor .....	220	Governing and Advisory Boards .....	277
Italian Studies .....	220	The Administration .....	279
Spanish for Business, Concentration .....	221	Courses A-Z .....	290
Spanish for Health Professions, Concentration .....	221	Accountancy (ACC) .....	291
Spanish Interpreting, Concentration .....	221	African Studies (AFS) .....	291
Spanish Studies .....	221	American Ethnic Studies (AES) .....	292
Spanish Translation/Localization, Concentration .....	222	Anthropology (ANT) .....	292
Spanish, B.A. ....	222	Arabic (ARB) .....	295
Spanish, Minor .....	222	Art (ART) .....	296
Casa Artom Program .....	223	Biochemistry & Molecular Biology (BMB) .....	299
Cuba Program .....	223	Biology (BIO) .....	300
Intensive Summer Language Institute (ISLI) .....	223	Business & Enterprise Mgmt (BEM) .....	305
Salamanca Internship Program .....	223	Business (BUS) .....	308
Salamanca Immersion Program .....	224	Chemistry (CHM) .....	308
Sorrento Program .....	224	Chinese (CHI) .....	310
Southern Cone (SoCo) Program .....	224	Classics (CLA) .....	310

Communication (COM) .....	311	Neuroscience (NEU) .....	363
Computer Science (CSC) .....	314	Philosophy (PHI) .....	363
Counseling (CNS) .....	316	Physics (PHY) .....	366
Creative Writing (CRW) .....	317	Politics&International Affairs (POL) .....	368
Dance (DCE) .....	317	Portuguese (PTG) .....	371
E. Asian Languages and Culture (EAL) .....	318	Psychology (PSY) .....	371
E. Asian Studies (EAS) .....	319	Religion (REL) .....	373
Economics (ECN) .....	319	Russian & E. European Studies (REE) .....	376
Education (EDU) .....	321	Russian (RUS) .....	376
Engineering (EGR) .....	324	Sanskrit (SKT) .....	377
English (ENG) .....	325	Self Instructional Language (SIL) .....	377
Entrepreneurship (ENT) .....	329	Sociology (SOC) .....	377
Environmental Program (ENV) .....	330	Spanish (SPA) .....	380
Film Studies (FLM) .....	331	Sports Medicine (SPM) .....	384
Finance (FIN) .....	331	Statistics (STA) .....	384
First Year Experience (FYE) .....	332	Theatre (THE) .....	385
First Year Seminar (FYS) .....	332	Washington DC Internship (WDC) .....	387
French (FRH) .....	332	Women's and Gender Studies (WGS) .....	387
German (GER) .....	334	Writing Courses (WRI) .....	390
German Studies (GES) .....	335	Programs A-Z .....	392
Greek (GRK) .....	336	Archive .....	394
Health and Exercise Science (HES) .....	336		
Health Policy & Administration (HPA) .....	338		
Hindi-Urdu (HNU) .....	338		
History (HST) .....	338		
Honors (HON) .....	345		
Humanities (HMN) .....	346		
Interdisciplinary Studies (IND) .....	348		
International Studies (INS) .....	348		
Italian (ITA) .....	349		
Japanese (JPN) .....	350		
Journalism (JOU) .....	351		
Latin (LAT) .....	351		
Italian Language and Culture in English (IAS) .....	352		
Latin American Studies (LAS) .....	352		
Library Science (LIB) .....	353		
Linguistics (LIN) .....	353		
Mathematics (MST) .....	354		
Middle East & South Asia Studies (MES) .....	356		
Military Science (MIL) .....	356		
Music (MUS) .....	358		
Near Eastern Lang. & Lit. (NLL) .....	363		

# Home

## Wake Forest College

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# THE ACADEMIC CALENDAR

## Fall Semester 2020

Date	Day	Event
August 19	Wednesday	Residence Halls open for new students *
August 19-23	Wednesday-Sunday	Orientation for new students
August 21	Friday	Residence Halls open for returning students *
August 24	Monday	Classes begin
September 7	Monday	Labor Day - classes are in session, staff holiday
September 7	Monday	Last day to add **
September 28	Monday	Last day to drop **
October 15-18	Thursday-Sunday	Fall break
October 19	Monday	Mid-term grades due by noon
October 26	Monday	Last day to drop with a grade of "W"
November 25-29	Wednesday-Sunday	Thanksgiving Holiday *
December 4	Friday	Classes end
December 5-6	Saturday-Sunday	Reading days
December 7-12	Monday-Saturday	Examinations
December 12	Sunday	All Residence Halls close at noon *
December 16	Wednesday	Grades due by noon
December 13-Jan. 10		Winter Recess

## Spring Semester 2021

Date	Day	Event
January 9	Saturday	Residence Halls open *
January 10	Sunday	Orientation for new students
January 11	Monday	Classes begin
January 26	Tuesday	Last day to add **
February 16	Tuesday	Last day to drop **
February 18	Thursday	Founders' Day Convocation
March 6-14	Saturday-Sunday	Spring Break *
March 8	Monday	Mid-term grades due by noon
March 22	Monday	Last day to drop with a grade of "W"
April 2	Friday	Good Friday Observance Holiday
April 28	Wednesday	Classes end
April 29, May 4	Thursday, Tuesday	Reading days
April 30-May 1, 3, 5-7	Fri-Sat, Mon, Wed-Fri	Examinations
May 11	Tuesday	Final grades due for May Degree Candidates by noon
May 16	Sunday	Baccalaureate

May 17	Monday	Commencement
May 18	Tuesday	Final grades due for non-degree candidates by noon

\* Consult *Residence Life and Housing* for a schedule of opening and closing times.

\*\* For courses taught in less than the full term's duration (e.g., 7.5 week classes) proportional drop and add deadlines are available on the *Academic Services calendar* on the Registrar's website (<https://registrar.wfu.edu/calendars/>).



# THE UNIVERSITY

*Wake Forest University is characterized by its devotion to the liberal arts and professional preparation, its strong sense of community and fellowship, and its encouragement of free inquiry and expression.*

Wake Forest Manual Labor Institute was founded in 1834 by the Baptist State Convention of North Carolina. The school opened its doors on February 3 with Samuel Wait as principal. Classes were first held in a farmhouse on the Calvin Jones plantation in Wake County, North Carolina, near which the village of Wake Forest later developed.

Re-chartered in 1838 as Wake Forest College, Wake Forest is one of the oldest institutions of higher learning in the state. The School of Law was established in 1894 and was followed by a two-year medical school in 1902. Wake Forest was a college for men until World War II, when women were admitted for the first time.

In 1941, the medical school moved to Winston-Salem to become affiliated with North Carolina Baptist Hospital and was renamed the Bowman Gray School of Medicine.

In 1946, the trustees of Wake Forest and the Baptist State Convention of North Carolina accepted a proposal by the Z. Smith Reynolds Foundation to relocate the College to Winston-Salem, 100 miles to the west. Charles and Mary Reynolds Babcock donated much of the R.J. Reynolds family estate as the site for the campus, and building funds were received from many sources. From 1952 to 1956, the first 14 buildings were constructed in Georgian style on the new campus. The move to Winston-Salem took place in the summer of 1956; the original, or "old" campus, is now home to Southeastern Baptist Theological Seminary.

Following the move, Wake Forest grew considerably in enrollment, programs, and stature and became a university in 1967. The School of Business Administration, first established in 1948, was named the Charles H. Babcock School of Business Administration in 1969 and admitted its first graduate students in 1971. In 1972, the school enrolled only graduate students and the name was changed to the Charles H. Babcock Graduate School of Management; departments of business and accountancy and economics were established in the College. In 1980, the Department of Business and Accountancy was reconstituted as the School of Business and Accountancy; the name was changed to the Wayne Calloway School of Business and Accountancy in 1995. On July 1, 2009, the Wayne Calloway School of Business and Accountancy and the Charles H. Babcock Graduate School of Management officially merged under the name Wake Forest University Schools of Business. In 2013, the name was changed to the Wake Forest University School of Business.

The Division of Graduate Studies, established in 1961, is now organized as the Graduate School and encompasses advanced work in the arts and sciences on both the Reynolda and Bowman Gray campuses. In 1997, the medical school was renamed the Wake Forest University School of Medicine; its campus is now known as the Bowman Gray Campus. The School of Divinity was established in 1999.

Wake Forest honors its Baptist heritage in word and deed. The University fulfills the opportunities for service arising out of that heritage. Governance is by an independent Board of Trustees; there are advisory boards of visitors for Wake Forest College, each professional school and Z. Smith Reynolds Library. A joint board of University trustees and trustees of the North Carolina Baptist Hospital is responsible for Wake

Forest University Baptist Medical Center, which includes the hospital and the medical school.

The College, the School of Business, the School of Law, the Graduate School and the School of Divinity are located on the Reynolda Campus in northwest Winston-Salem. The Wake Forest School of Medicine is four miles away, near the city's downtown. The Wake Forest University Charlotte Center, located in that city's acclaimed uptown business district, is home to select graduate business programs. The University also offers instruction regularly at Casa Artom in Venice, at Worrell House in London, at Flow House in Vienna, in a newly opened facility in Washington, D.C., and in several other places around the world.

The College offers courses in more than 40 fields of study leading to the baccalaureate degree.

The School of Divinity offers the master of divinity degree and joint degree programs in law, education, counseling and sustainability in conjunction with other divisions of the University.

The Wake Forest School of Business offers a four-year bachelor of science degree, with majors in accountancy, business and enterprise management, finance, and mathematical business (offered jointly with the Department of Mathematics); and four graduate degree programs: master of science in accountancy (MSA), master of arts in management (MA), master of business administration (MBA), and master of science in business analytics (MSBA).

The School of Law offers the juris doctor and master of laws in American law degrees. The school also offers a joint JD programs with the School of Business and the School of Divinity.

In addition to the doctor of medicine degree, the Wake Forest School of Medicine offers, through the Graduate School, programs leading to the master of science and doctor of philosophy degrees in biomedical sciences. The School of Medicine and the School of Business offer a joint MD/MBA program.

The Graduate School confers the master of arts, master of arts in education, master of arts in liberal studies, and master of science degrees in the arts and sciences and the doctor of philosophy degree in biology, chemistry and physics. The Graduate School also offers an MFA in documentary film and dual degree programs with the School of Medicine and the School of Business.

## The Undergraduate Schools

The undergraduate schools, Wake Forest College and the Wake Forest School of Business, are governed by the Board of Trustees, the University administration and by their respective faculties. Responsibility for academic administration is delegated by the president and trustees to the provost, who is the chief academic officer of the University. The deans of the schools report to the provost and are responsible for academic planning and administration for their schools.

Wake Forest College has undertaken bold initiatives to make standardized tests optional for undergraduate applicants, develop new programs to educate the whole person, reinvent the 21<sup>st</sup> century liberal arts education with personal and career preparedness a key focus and build greater community through a three-year residency requirement.

The Higher Education Act requires that institutions of higher education make available by October 15 of each year a copy of the Equity in Athletics Disclosure Act annual report to any student who requests

one. Please contact the Athletic Department to request a copy of this document.

## Non-Discrimination Statement

Wake Forest University is committed to diversity, inclusion and the spirit of its motto, *Pro Humanitate*. In adherence with applicable laws and as provided by University policies, the University prohibits discrimination in its employment practices and its educational programs and activities on the basis of race, color, religion, national origin, sex, age, sexual orientation, gender identity and expression, genetic information, disability and veteran status.

The following person has been designated to handle inquiries regarding the University's non-discrimination policies:

**Title IX Coordinator**  
**titleixcoordinator@wfu.edu**  
**P.O. Box 6006**  
**Winston-Salem, NC 27109**  
**336-758-7258**

Deputy Title IX Coordinators have also been designated and represent various University schools/divisions. Contact information for each Deputy Coordinator can be obtained from the University's Title IX Coordinator.

Inquiries concerning the application of anti-discrimination laws may be referred to the individuals listed above or to the Office for Civil Rights, United States Department of Education. For further information on notice of non-discrimination, visit <http://wdcrocolp01.ed.gov/CFAPPS/OCR/contactus.cfm> for the address and phone number of the U. S. Department of Education office that serves your area, or call 1-800-421-3481.

## Buildings and Grounds

The Reynolda Campus of Wake Forest, which opened in the summer of 1956 upon the institution's move from its original home near Raleigh, is situated on approximately 340 acres. Its physical facilities consist of more than 80 buildings, most of which are of modified Georgian architecture and constructed of Old Virginia brick trimmed in granite and limestone.

The main Quadrangle, *Hearn Plaza*, is named for Wake Forest's 12th president, Thomas K. Hearn Jr., who served from 1983 to 2005. *Manchester Plaza*, named for benefactors and Wake Forest parents Doug Manchester (P '03, P '06) and Elizabeth Manchester (P '03, P '06), is located on south campus. The *Reynolda Gardens complex*, consisting of about 128 acres and including Reynolda Woods, Reynolda Village, Reynolda Gardens, and Reynolda House and Museum of American Art, is adjacent to the campus. The Graylyn International Conference Center is nearby.

*Wait Chapel*, named in memory of Samuel Wait, the first president of the College, seats 2,227. The Wait Chapel tower contains the Janet Jeffrey Carlile Harris Carillon, an instrument of 48 bells.

*Wingate Hall*, named in honor of President Washington Manly Wingate (1849, MA 1854), the fourth president of the College, houses the Department for the Study of Religions and the School of Divinity.

*Reynolda Hall*, across the upper plaza from Wait Chapel, houses most of the administration, including offices of the President, the Provost, the Dean of the College, the Center for Global Programs and Studies, the

Office of Personal and Career Development and the University Chaplain. It is also home of a large dining facility for the Reynolda Campus.

*Benson University Center*, named for the father of benefactor Clifton Linwood Benson Jr. ('64), houses the Student Union and is the central hub for student activities, services and events. The bottom floor of Benson is the home to Pugh Auditorium movie theater and several food venues, and the LGBTQ Center is located on the second floor.

*Z. Smith Reynolds Library and its Edwin Graves Wilson Wing*, named in honor of the Class of 1943 graduate who became a distinguished English professor and administrator at his alma mater, house the main collection of books and documents on the Reynolda Campus. Along with eight floors of open stacks, it has reading and reference rooms for study.

*Carswell Hall*, named in honor of alumnus and benefactor Guy T. Carswell (1922, LLD '62), houses the Department of Communication and the Annenberg Forum, a large multimedia lecture space.

*Winston Hall* houses the Department of Biology and *Salem Hall* is home to the Department of Chemistry. Both buildings have laboratories as well as classrooms and special research facilities. The *Olin Physical Laboratory* houses the physics department.

*Harold W. Tribble Hall*, named for Wake Forest's 10th president, accommodates primarily humanities departments. It has seminar rooms, a philosophy library and a multimedia lecture space, DeTamble Auditorium.

*The Museum of Anthropology* houses the Department of Anthropology and North Carolina's only museum dedicated to the study of world cultures.

*Calloway Center for Mathematics and Computer Science* was named in honor of former University Trustee Wayne Calloway ('59, LLD '88, P '95). The building houses the Departments of Mathematics and Statistics and Computer Science in Manchester Hall and the Departments of Politics and International Affairs, Economics and Sociology in Kirby Hall.

*Farrell Hall*, named for Wake Forest parents and benefactors Michael (LLD '13, P '10) and Mary (P '10) Farrell, broke ground in April 2011 and is home to the School of Business. It hosted its first classes in July 2013 and was formally dedicated in November 2013.

*William B. Greene Jr. Hall*, named for alumnus and benefactor Bill Greene ('59), houses the Departments of Psychology, German and Russian, and Romance Languages.

*James R. Scales Fine Arts Center*, named for James Ralph Scales, Wake Forest's 11th president, supports the functions of studio art, theatre, musical and dance performances and instruction in art history, drama and music. Off its main lobby is the Charlotte and Philip Hanes Gallery, a facility for special exhibitions. The art wing includes spacious studios for drawing, painting, sculpture and printmaking, along with a smaller gallery and classrooms. Adjacent to the art wing is a dance studio for performances and rehearsals. The theatre wing has design and production areas and two technically complete theatres, the larger of traditional design and the smaller for ring productions. The music wing contains classrooms, practice rooms for individuals and groups, the offices of the Department of Music and Brendle Recital Hall for concerts and lectures.

*Worrell Professional Center*, named for alumnus and benefactor T. Eugene Worrell ('40, LHD '79), houses the School of Law. Recent additions to

Worrell in 2016 provided a new home for instruction in the Department of Health and Exercise Science.

The *ROTC Building* is home to the Wake Forest Reserve Officers Training Corps program and military science studies.

*Wake Forest Wellbeing Center*, comprised of the Sutton Center and the Historic W.N. Reynolds Gymnasium, was reimagined and officially dedicated in 2018. The Sutton Center, named for alumnus and benefactor Ben Sutton ('80, JD '83, P '14, P '16, P '19), provides a large venue for wellbeing, social and academic gatherings; and Historic W.N. Reynolds Gymnasium, named for a prominent member of the family that helped bring the campus to Winston-Salem, has courts for indoor sports, a swimming pool and Student Health Services.

Wake Forest is home to outstanding athletics facilities designed to enhance the health, wellbeing and competitive excellence of all Demon Deacon teams.

Adjacent to the Wellbeing Center are *Kentner Stadium*, *Manchester Athletic Center* and the *Kenneth D. Miller Center*, all of which are named for University benefactors. Kentner is home to the Demon Deacon field hockey team and the Manchester and Miller Centers house athletics administration.

The newest facilities on campus opened in September 2019. The *Sutton Sports Performance Center*, also named for Ben Sutton, and the *Shah Basketball Performance Center*, honoring benefactor and alumnus Mit Shah ('91), are dedicated to the strength, conditioning, sport-specific practice and nutrition of student-athletes.

*Spry Stadium*, home of Wake Forest men's and women's soccer, is situated across from North Campus housing. Named for the father of benefactor William D. Spry, Jr. (P '97), the facility is one of the best in the country.

*McCreary Field House*, named for alumnus and benefactor Bob McCreary ('61), opened in 2016, providing indoor practice facilities and weightlifting for all of Wake Forest's intercollegiate sports teams.

The *Arnold Palmer Golf Complex*, named in honor of alumnus, benefactor and Life Trustee Arnold Palmer ('51, LLD '70), includes the *Dianne Dailey Golf Learning Center*, which opened in 2010 and is named for the coach who led the women's golf program for 30 years, and the *Haddock Golf Center*, completed in 2016 and named for Jesse Haddock ('52, P '68), who coached the Deacons to three NCAA championships in his 32 years of service.

The three largest athletics venues are located 1.3 miles off the Reynolda Campus. *BB&T Field* is the home of the football team; basketball teams play in *Lawrence Joel Veterans Memorial Coliseum*, named after a decorated Vietnam War veteran from Winston-Salem; and baseball's home is *David F. Couch Ballpark*, named a 1984 graduate and benefactor.

*Alumni Hall* houses University Advancement, the University Police Department and the Department of Parking and Transportation.

*Porter B. Byrum Welcome Center*, named for alumnus and benefactor Porter B. Byrum (JD '42), is at the entrance to Wake Forest. The building allows prospective students and their families an opportunity to learn more about the University and to meet with admissions staff.

*The Barn*, built to resemble a North Carolina farm barn, offers opportunities for concerts, performances and other on-campus events.

The Wake Forest campus has a wide variety of housing options available to students in residence halls named for alumni, faculty, benefactors and Wake Forest presidents: *Babcock Hall*, *Bostwick Hall*, *Collins Hall*, *Davis Hall*, *Efird Hall*, *Huffman Hall*, *Johnson Hall*, *Kitchin Hall*, *Luter Hall*, *Martin Hall*, *North Campus Apartments*, *Palmer Hall*, *Piccolo Hall*, *Polo Hall*, *Poteat Hall*, *Student Apartments*, *South Hall* and *Taylor Hall*. *Dogwood and Magnolia Residence Halls* opened in August 2013 and are coeducational by floor, wing or apartment. In January 2014, the North Dining facilities opened adjacent to the new residence halls providing alternative dining options to the north side of campus. In January 2017, *Maya Angelou Residence Hall*, named in honor of the distinguished Wake Forest faculty member and internationally acclaimed poet, opened. It is also home to the Office of Residence Life and Housing as well as the Deacon OneCard Office.

In January 2017, converted tobacco warehouses became the home of new degree programs in biomedical sciences and engineering. Known as *Wake Downtown*, this academic extension is located a 13-minute shuttle ride from the Reynolda Campus. That same year, the University opened *Wake Washington*, a home of academic operations on DuPont Circle in Washington, D.C.

Wake Forest is the only Top-30 national university to own academic-residential houses in three foreign countries. The University purchased *Casa Artom*, located on the Grand Canal in Venice and named for beloved medical school professor Dr. Camillo Artom, in 1974. Three years later, it acquired a London facility and named it *Worrell House* in honor of benefactor T. Eugene Worrell ('40, LHD '79) and his wife, Anne Worrell. And in 1998, *Flow House*, located in Vienna and named in honor of alumnus, benefactor and Life Trustee Victor I. Flow ('52, P '83) and his wife, Roddy Flow (P '83), became part of the Wake Forest family.

## Information Systems

Information Systems supports the instruction, research, and administrative needs of Wake Forest University through computing and telecommunications services. The campus computer network offers high-speed wired and wireless connectivity from all campus buildings and in some outdoor areas, such as Hearn and Manchester Plaza.

All undergraduate students are required to have a laptop with minimum configuration requirements to be able to handle all academic software. Students have the choice to bring their own device from home or purchase a laptop through the WakeWare program. These laptops are specially selected models at a negotiated price with a four year extended warranty and accidental damage protection.

Visit the WakeWare website at [wakeware.wfu.edu](http://wakeware.wfu.edu) (<http://wakeware.wfu.edu>) for more information about purchasing, prices, support, and Technology Grants. All students are able to download academic software at [software@WFU](mailto:software@WFU) (<https://software.wfu.edu/>) to their personally-owned computers. Visit [software.wfu.edu](http://software.wfu.edu) (<http://software.wfu.edu>) to view available software and download instructions.

Information Systems maintains an extensive array of online information systems that support University admissions, student registration, grade processing, payroll administration, finance and accounting services, and many other administrative and academic applications. In addition, the Wake Forest Information Network (WIN) provides the University community with features like internal directories; electronic access to view payroll and tax information; and vehicle registration.

Students also have access to computing resources outside the University. The University is a member of:

- The Inter-University Consortium for Political and Social Research (ICPSR), located at the University of Michigan. Membership in ICPSR provides faculty and students with access to a large library of data files, including public opinion surveys, cross-cultural data, financial data, and complete census data.
- EDUCAUSE, a national consortium of colleges and universities concerned with computing issues.
- Eduroam, a global wireless network access service for research and education, accessed using Wake Forest credentials.

The University's computing resources serve both academic and administrative needs. Wake Forest's network infrastructure includes a ten Gigabit per second Ethernet backbone, a mixture of 100 Megabit and one Gigabit per second switched connectivity to the desktop, and pervasive wireless connectivity in all campus buildings and some outdoor areas, such as Hearn and Manchester Plazas. Linux and Windows-based servers provide for administrative computing needs and services. A mix of Linux systems and Windows-based systems provide for communication and collaborative tools, the Learning Management System, website hosting, various research needs, and print services. A Linux High Performance Computing cluster provides supercomputing services for a variety of research applications including physics, biology, computer science, math, business, and others. These systems are available to students, faculty, and staff 24 hours a day through the Wake Forest University network.

Wake Forest has a 10 gigabit Ethernet connection to North Carolina Research and Education Network (NCREN) for Internet access. NCREN is the Internet service provider for the majority of North Carolina colleges and universities in North Carolina. Through this connection, Wake Forest has access to additional extensive supercomputing facilities located throughout the state of North Carolina as well as access to all the premiere research networks in the world, including Internet2 and the National Lambda Rail. Wake Forest works closely with NCREN on other advanced network and Internet technologies.

All residence hall rooms are equipped with cable TV programming, Wi-Fi and the capability for VoIP technology. Cable television, while providing a recreational outlet, plays an important role by providing access to campus information and educational offerings. Information Systems offers cable TV service that includes HD and music channels to students in residence halls. The channel lineup can be found at [is.wfu.edu](http://is.wfu.edu) (<http://is.wfu.edu>). Additionally, using Apogee Stream2 (<https://is.wfu.edu/services/stream2/>), students can access streaming TV services for their computer and personal mobile devices while on campus.

AskDeac (<https://help.wfu.edu/>), at [help.wfu.edu](https://help.wfu.edu/) (<https://help.wfu.edu/>), is Information Systems' help portal, providing an easy-to-use, user-friendly platform for getting IT help. The Service Desk, located on the main floor of the Z. Smith Reynolds Library, provides general information technology assistance and laptop repair for students, faculty, and staff. Students have 24-hour access to online support resources at [is.wfu.edu](http://is.wfu.edu) (<http://is.wfu.edu/>). The Service Desk is a partnership of the Z. Smith Reynolds Library and Information Systems.

## Libraries

The libraries of Wake Forest University support instruction and research at the undergraduate level and in the disciplines awarding graduate degrees. The libraries of the University hold membership in the Association of Southeastern Research Libraries.

The Wake Forest University libraries include the Z. Smith Reynolds (ZSR) Library (<https://zsr.wfu.edu/>), located on the Reynolda Campus and

supports the undergraduate College, the Wake Forest School of Business, the Graduate School of Arts and Sciences, and the School of Divinity. The Law Library (<http://library.law.wfu.edu/>), housed in the Worrell Professional Center on the Reynolda Campus, serves the School of Law. The Coy C. Carpenter Library (<https://school.wakehealth.edu/Carpenter-Library/>) serves the Wake Forest School of Medicine and is located on the Bowman Gray Campus.

## Collections

The three library collections total over 2.4 million titles, including over 1.4 million e-books, more than 100,000 electronic journals and over 15,000 DVDs as well as streaming media and other formats. The ZSR Library serves as a congressionally designated selective federal depository. The Law Library holds nearly 130,000 volumes and the Coy C. Carpenter Library holds nearly 27,000 volumes. The three libraries share an online search portal, which provides access to books, electronic resources, journals and databases. Through interlibrary loan service (<https://zsr.wfu.edu/delivers/ill/>), students, faculty and staff may obtain materials from other libraries at no charge.

## Z. Smith Reynolds Library

The Z. Smith Reynolds Library (ZSR) provides comprehensive reference and research services (<https://zsr.wfu.edu/research/>) in-person and online. Research Librarians work with individual classes across the disciplines on research papers and library users can request personal research sessions (<https://zsr.wfu.edu/research/support/sessions/>) with Research Librarians at all phases of their research process. Library faculty also teach elective courses in the fundamentals of research and information literacy and upper-level courses geared towards research in the disciplines and special topics in information. The Digital Initiatives & Scholarly Communication (<https://zsr.wfu.edu/digital-scholarship/>) librarians and staff support and empower faculty scholarship through digital tools, methods, publication, and preservation.

Special Collections & Archives (SCA) (<https://zsr.wfu.edu/special/about/>) in ZSR is the repository for the Baptist Historical Collection of North Carolina (the Ethel Taylor Crittenden Collection), Personal Collections & Manuscripts, the Rare Book Collection, and the University Archives. All are welcome to use the SCA digital collections (<https://zsr.wfu.edu/special/collections/digital/>), and to visit the Research Room. It is a beautiful space for researchers to delve into the collections, and where SCA hosts many events and exhibits (<https://zsr.wfu.edu/special/events/>).

## Spaces

The Z. Smith Reynolds library has ten group study rooms equipped with large screen monitors that can be booked online (<https://zsr.wfu.edu/studyrooms/>). Publicly available Windows and Macintosh computers are available in the Scholars Commons and Reference areas, and media viewing stations are available in the Media Room. Multimedia equipment, Chromebooks, tablets, and other technology devices may be reserved for checkout. The Reference Desk (<https://zsr.wfu.edu/research/support/>) and online chat (<https://zsr.wfu.edu/chat/>) are available to help library visitors to find resources and research assistance. The library has a 118-seat auditorium for use by Wake Forest community groups for programs, lectures, and film screenings. There is also the ZieSta Room, a space for students to take a break from studying to nap or rest in comfortable loungers.

ZSR houses the Information Systems Service Desk (<https://is.wfu.edu/>), the Center for the Advancement of Teaching (<https://cat.wfu.edu/>), and The Writing Center (<http://writingcenter.wfu.edu/>). The Center for the

Advancement of Teaching is a resource center for Wake Forest faculty at all stages of their careers. The Writing Center provides help to guide students through their writing process.

## Access

ZSR library is committed to creating an accessible, enriching, and welcoming community space for all.

The library is open for students continuously during the fall and spring semesters 24 hours a day from 10:00 am Sunday through 7:00 pm Friday, and daytime hours on Saturday. Two 24-hour study rooms are located near the entrance to the library and may be accessed by keycard even when the library is closed. The study room on one side houses a Starbucks. Check out the hours and events calendar (<https://zsr.wfu.edu/calendar/>) to stay up to date.

## Accreditation

Wake Forest University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, masters and doctorate degrees. Contact the Commission on Colleges at:

1866 Southern Lane  
Decatur, Georgia 30033-4097

or call 404-679-4500 for questions about the accreditation of Wake Forest University.

The Wake Forest School of Medicine is a member of the Association of American Medical Colleges and is fully accredited by the Liaison Committee on Medical Education, the joint accrediting body of the Association of American Medical Colleges and the American Medical Association. The Wake Forest University Physician Assistant program is accredited by the Accreditation Review Commission on Education for the Physician Assistant Inc. (ARC-PA). For more information on the accreditation status of the program, visit the ARC-PA website (<http://www.arc-pa.org/accreditation/accredited-programs/>) or the medical school website (<https://school.wakehealth.edu/About-the-School/Academic-Accreditation/>). The Nurse Anesthesia program is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs (<https://www.coacna.org/Pages/default.aspx>) (COA). The School of Law is a member of the Association of American Law Schools and the American Bar Association. It is listed as an approved school by the Council of the Section of Legal Education and Admissions to the Bar of the American Bar Association and by the Board of Law Examiners and the Council of the North Carolina State Bar. Wake Forest University School of Business is accredited by the Association to Advance Collegiate Schools of Business. The program in counseling leading to the master of arts in education degree is accredited by the Council for the Accreditation of Counseling and Related Educational Programs. The Divinity School is accredited by the Association of Theological Schools in the United States and Canada (ATS).

Wake Forest University is a member of many major institutional organizations and associations at the national, regional and statewide levels, including the following: The American Council on Education, the Association of American Colleges, the National Association of Independent Colleges and Universities, the Council of Graduate Schools in the United States, the Commission on Colleges of the Southern Association of Colleges and Schools, Oak Ridge Associated Universities, Southern Universities Conference, the North Carolina Conference of Graduate Schools, the North Carolina Association of Colleges and Universities, the North Carolina Department of Public Instruction and North Carolina Independent Colleges and Universities. In addition, many

offices of the University are members of associations which focus on particular aspects of university administration.

Wake Forest has chapters of the principal national social fraternities and sororities, professional fraternities and honor societies, including Phi Beta Kappa and Sigma Xi. There is an active chapter of the American Association of University Professors on campus.

# WAKE FOREST COLLEGE

*Wake Forest College of Wake Forest University is the center of the University's academic life; through it, the University carries on the tradition of preparing men and women for personal enrichment, enlightened citizenship, and professional life.*

Wake Forest College is a place of meeting. Its teachers and students are of diverse backgrounds and interests, and that diversity is crucial to the distinctive character of the College. Wake Forest continually examines its educational purpose and evaluates its success in fulfilling it. A formal statement of purpose was prepared as part of the school's decennial reaccreditation process and was adopted by the Board of Trustees.

## Statement of Mission and Purpose

Wake Forest is a university dedicated to the pursuit of excellence in the liberal arts and in graduate and professional education. Its distinctiveness in its pursuit of its mission derives from its private, coeducational, and residential character; its size and location; and its Baptist heritage. Each of these factors constitutes a significant aspect of the unique character of the institution.

The University is now comprised of six constituent parts: Wake Forest College, the Graduate School of Arts and Sciences, the School of Law, the School of Medicine, the School of Business and the School of Divinity. It seeks to honor the ideals of liberal learning, which entail commitment to transmission of cultural heritages; teaching the modes of learning in the basic disciplines of human knowledge; developing critical appreciation of moral, aesthetic and religious values; advancing the frontiers of knowledge through in-depth study and research; and applying and utilizing knowledge in the service of humanity.

Wake Forest has been dedicated to the liberal arts for over a century and a half; this means education in the fundamental fields of human knowledge and achievement, as distinguished from education that is technical or narrowly vocational. It seeks to encourage habits of mind that ask "why," that evaluate evidence, that are open to new ideas, that attempt to understand and appreciate the perspectives of others, that accept complexity and grapple with it, that admit error, and that pursue truth. Wake Forest College has by far the largest student body in the University, and its function is central to the University's larger life. The College and the Graduate School are most singularly focused on learning for its own sake; they therefore serve as exemplars of specific academic values in the life of the University.

Beginning as early as 1894, Wake Forest accepted an obligation to provide professional training in a number of fields, as a complement to its primary mission of liberal arts education. This responsibility is fulfilled in the conviction that the humane values embodied in the liberal arts are also centrally relevant to the professions. Professional education at Wake Forest is characterized by a commitment to ethical and other professional ideals that transcend technical skills. Like the Graduate School, the professional schools are dedicated to the advancement of learning in their fields. In addition, they are specifically committed to the application of knowledge to solving concrete problems of human beings. They are strengthened by values and goals which they share with the College and Graduate School, and the professional schools enhance the work of these schools and the University as a whole by serving as models of service to humanity.

Wake Forest was founded by private initiative, and ultimate decision-making authority lies in a privately appointed Board of Trustees rather

than in a public body. Funded to a large extent from private sources of support, it is determined to chart its own course in the pursuit of its goals. As a co-educational institution it seeks to "educate together" persons of both sexes and from a wide range of backgrounds—racial, ethnic, religious, geographical, socio-economic and cultural. Its residential features are conducive to learning and to the pursuit of a wide range of co-curricular activities. It has made a conscious choice to remain small in overall size; it takes pride in being able to function as a community rather than a conglomerate. Its location in the Piedmont area of North Carolina engenders an ethos that is distinctively Southern, and more specifically North Carolinian. As it seeks further to broaden its constituency and to receive national recognition, it is also finding ways to maintain the ethos associated with its regional roots.

Wake Forest is proud of its Baptist and Christian heritage. For more than a century and a half, it has provided the University an indispensable basis for its mission and purpose, enabling Wake Forest to educate thousands of ministers and lay people for enlightened leadership in their churches and communities. Far from being exclusive and parochial, this religious tradition gives the University roots that ensure its lasting identity and branches that provide a supportive environment for a wide variety of faiths. The Baptist insistence on both the separation of church and state and local autonomy has helped to protect the University from interference and domination by outside interests, whether these be commercial, governmental, or ecclesiastical. The Baptist stress upon an uncoerced conscience in matters of religious belief has been translated into a concern for academic freedom. The Baptist emphasis upon revealed truth enables a strong religious critique of human reason, even as the claims of revelation are put under the scrutiny of reason. The character of intellectual life at Wake Forest encourages open and frank dialogue and provides assurance that the University will be ecumenical and not provincial in scope, and that it must encompass perspectives other than the Christian. Wake Forest thus seeks to maintain and invigorate what is noblest in its religious heritage.

## History and Development

Since 1834, Wake Forest College has developed its distinctive pattern of characteristics: tenacity, independence, a fierce defense of free inquiry and expression, and a concern that knowledge be used responsibly and compassionately. Its growth from a small sectarian school to one of the nation's most significant private universities proves the value of these core characteristics.

The brief history of Wake Forest is useful in understanding the University as it is today and appreciating the process through which it developed.

### Chronological History of Wake Forest University

Year	Event
1834	Founded in the town of Wake Forest, North Carolina, as Wake Forest Manual Labor Institute by the Baptist State Convention of North Carolina. <b>Samuel Wait, president</b>
1838	Named Wake Forest College
1845	<b>William Hooper, president</b>
1849	<b>John Brown White, president</b>
1854	<b>Washington Manly Wingate, president</b>

1879	<b>Thomas Henderson Pritchard, president</b>	1995	School of Business and Accountancy is renamed the Wayne Calloway School of Business and Accountancy
1884	<b>Charles Elisha Taylor, president</b>	1996	Wake Forest becomes the first college in the history of the U.S. News rankings to advance from classification as a Regional University to a Top-30 National University. It remains the only school to make this jump.
1894	School of Law established	1997	Change of name to Wake Forest University School of Medicine
1902	Two-year School of Medicine established	1998	Purchased Flow House in Vienna to serve as an academic international house for students
1905	<b>William Louis Poteat, president</b>	1999	Divinity School founded
1921	First summer session	2005	<b>Nathan O. Hatch, president</b>
1927	<b>Francis Pendleton Gaines, president</b>	2008	Wake Forest announces it will become the first Top-30 National University to no longer require admission applicants to submit standardized test scores. This is a distinction we still hold.
1930	<b>Thurman D. Kitchin, president</b>	2009	The Wayne Calloway School of Business and Accountancy and the Charles H. Babcock Graduate School of Management officially merged under the name Wake Forest University Schools of Business (now named Wake Forest University School of Business)
1941	Relocation of the School of Medicine to Winston-Salem and eventual change of name to Bowman Gray School of Medicine and association with the North Carolina Baptist Hospital	2010	Wake Forest begins a 10-year, \$625 million construction effort that enhances academic, residential and athletic facilities.
1942	Women admitted as undergraduate students	2012	Opening of Wake Forest University Charlotte Center in uptown Charlotte, N.C.
1950	<b>Harold Wayland Tribble, president</b>	2017	Opening of Wake Downtown, home to new biomedical sciences and engineering programs; opening of the Wake Washington Center at One Dupont Circle, Washington, D.C.
1953	Wake Forest becomes a founding member of the Atlantic Coast Conference		
1956	Move to Winston-Salem, 100 miles west, in response to an endowment from the Z. Smith Reynolds Foundation. No American college has picked up roots as deep and moved them so far.		
1961	Graduate School of Arts and Sciences established		
1962	First major private university in the South to integrate with the enrollment of Edward Reynolds		
1967	<b>James Ralph Scales, president</b>		
1967	Change of name to Wake Forest University		
1969	Charles H. Babcock Graduate School of Management established		
1974	Purchased Casa Artom in Venice to serve as an academic international house for students		
1977	Purchased Worrell House in London to serve as an academic international house for students		
1983	<b>Thomas K. Hearn Jr., president</b>		
1984	Sesquicentennial anniversary		
1986	Established governing independence from the Baptist State Convention of North Carolina		
1994	Carnegie Foundation recognizes Wake Forest as a Doctoral II institution, an upgrade that qualifies the University for consideration as a National University according to U.S. News & World Report rankings		

## Honor System

Wake Forest University upholds the ideals of honor and integrity. The Honor System is central to University life; its essence is a commitment by each person to do what is right and abide by community standards. Each student is pledged to be trustworthy in all matters, and a violation of that trust is an offense against the community as a whole. In the specific terms of the Honor Code, a student pledges in all phases of life not to cheat, plagiarize, engage in other forms of academic or social misconduct, deceive, or steal. The strength of the Honor System derives from the commitment of each and every student to uphold its ideals.

The undergraduate student conduct system is jointly administered by the Office of the Dean of the College, the Office of the Dean of Student

Services, and the Judicial Council. Complete details are available at the Offices of the Dean of the College and the Dean of Students.

## Student Complaints

Situations may arise in which a student believes that he or she has not received fair treatment by a representative of the University or has a complaint about the performance, actions, or inaction of the staff or faculty affecting a student. There are mechanisms in place for the reporting and resolution of complaints regarding specific types of concern (student conduct, honor system, bias, grade dispute, harassment and discrimination, for instance), and these should be fully used where appropriate. Students are encouraged to seek assistance from faculty advisers, deans' offices in the College or Business School, or the Office of the Dean of Students when evaluating the nature of their complaints and deciding on an appropriate course of action.

The complaint process outlined below is meant to answer and resolve issues arising between individual students and the University and its various offices when a mechanism for reporting and resolution of the specific type of concern is not already in place. A complaint cannot be filed on behalf of another person. A complaint should first be directed as soon as possible to the person or persons whose actions or inactions have given rise to the problem—not later than three months after the event.

For complaints in the academic (i.e., classroom) setting, the student should talk personally with or send a written complaint explaining the concern directly to the instructor. Should the student and instructor be unable to resolve the conflict, the student may then turn to the chair of the involved department (in the Wake Forest School of Business, this would be the dean) for assistance. The chair (or dean) will communicate with both parties, seek to understand their individual perspectives, and within a reasonable time, reach a conclusion and share it with both parties. If the student's complaint is not resolved by these procedures he/she should consult with the Office of Academic Advising for assistance. Finally, a student may appeal to the Committee on Academic Affairs which will study the matter, taking input from all parties, and reach a final decision concerning resolution.

For complaints outside the academic setting, the student should talk personally with or send a written complaint explaining the concern directly to the individual involved. Should the student and individual be unable to resolve the concern, the student may then turn to the appropriate administrative channel for assistance, which may be an immediate supervisor, department head, or Dean. The immediate supervisor, department head, or dean will meet or communicate with both parties, seek to understand their individual perspectives, and within a reasonable time, reach a conclusion and share it with both parties. Finally, a student may appeal to the vice president with administrative responsibility for the issue that is the subject of the concern. The vice president will study the matter, work with the parties, and reach a final resolution. Students uncertain about the proper channels are encouraged to seek advice from faculty advisers, deans' offices, or the Office of the Dean of Students.

## Summary of Computing Rights and Responsibilities

The policy applies to all computer and computer communication facilities owned, leased, operated, or contracted by the University. This includes, but is not limited to, tablets, personal computers, laptops, smart phones,

computer networks, computer peripherals, and software, whether used for academic, administration, research or other purposes. This also includes use of University data or access to computer systems by personal devices such as computers, tablets, and smart phones by faculty, staff, students and guests. The policy extends to any use of University facilities to access computers elsewhere.

Wake Forest University provides each of its students and faculty with an email account. Outside of the classroom, email is an important means of communication between faculty, staff, and students. It is the responsibility of the student to regularly monitor his or her Wake Forest email account for University communications.

**Basic Principles.** The University's computing resources are for administrative, instructional, educational, and research use by the students, faculty, staff, vendors and contractors of Wake Forest University. Ethical standards which apply to other University activities (Honor Code, Social Regulations and Policies, and all local, state, and federal laws) apply equally to use of University computing resources.

As in all aspects of University life, users of the University's computing resources should act honorably and in a manner consistent with ordinary ethical obligations. Cheating, stealing, making false or deceiving statements, plagiarism, vandalism, and harassment are just as wrong in the context of computing resources as they are in all other domains.

Use of campus resources is restricted to authorized users. For the purposes of this policy, an "authorized user" is defined as an individual who has been assigned a login ID and authentication credentials such as a password for use of computing resources. Authorized users are responsible for the proper use of the accounts assigned to them under their login ID and authentication credentials. Users are also responsible for reporting any activities which they believe to be in violation of this policy, just as students are responsible for reporting Honor Code violations.

Use of these resources must be done:

- *In a manner consistent with the terms under which they were granted access*
- *In a way that respects the rights and privacy of other users; so as not to interfere with or violate the normal, appropriate use of these resources; and*
- *In a responsible manner and consistent with University policies and the workplace and educational environment.*

For faculty, staff, vendors, contractors, and other non-students, limited personal use of University issued computing resources is authorized so long as it does not impact University computers, network, or interfere with work related activities and is not prohibited by this or other policies.

For students, personal activity is allowed as long as it does not interfere with other University computers or network bandwidth and is not prohibited by this or other policies.

**Systems Monitoring.** This statement serves as notice to all users of campus computing resources that regular monitoring of system activities occurs and users should have no expectation of privacy while on the WFU network or computer systems. Only people engaged in supporting University computing resources are authorized to perform monitoring of systems and only for systems under their control.

**Policy Violations.** Suspected violation of this policy will be handled through the appropriate University process or office, such as



administrative procedures, The Honor and Ethics Council, the Graduate Council, Dean's office, or Human Resources.

Violation of this policy may result in one or more of the following, in addition to any other actions deemed appropriate by the applicable authority:

- *Suspension of one's ability to perform interactive logins on relevant machines on campus.*
- *Suspension of one's ability to use the University's computing resources.*
- *Suspension of one's ability to send or receive email.*
- *Increased monitoring of further computer activity (beyond normal systems monitoring).*

**Locating Computing Policy Information and Policy Updates.** The above summary is based on the "Policy on Ethical and Responsible Use of Computing Resources". These policies may be updated, shortened, or expanded from time to time.

Full policies can be reviewed online: <https://is.wfu.edu/services/policies-and-standards/>

# PROCEDURES

*Students are responsible for familiarizing themselves with the portions of this bulletin that pertain to their course of study. Statements concerning courses and expenses are not to be regarded as irrevocable contracts between the student and the institution. The University reserves the right to change the schedule of classes and the cost of instruction at any time within the student's term of residence.*

## Admission

Candidates for admission must furnish evidence of maturity and educational achievement. The Committee on Admissions carefully considers the applicant's academic records, scores on any submitted standardized tests, written portion of the application, and evidence of character, motivation, goals, and general fitness for study in the College. The applicant's secondary school program must establish a commitment to the kind of broad liberal education reflected in the academic requirements of the College.

Admission as a first-year student normally requires graduation from an accredited secondary school with a minimum of 16 units of high school credit. These should include 4 units in English, 3 in mathematics, 2 in history and social studies, 2 in a single foreign language, and 1 in the natural sciences. An applicant who presents at least 12 units of differently distributed college preparatory study can be considered. Homeschooled students submitting all required documentation of the application will be considered. Additional documentation outlining the homeschool curriculum, including transcripts from courses taken outside the home and Advanced Placement or other standardized test scores are welcomed. A limited number of applicants may be admitted without the high school diploma, with particular attention given to ability, maturity, and motivation.

## Application

An application is secured from the Office of Undergraduate Admissions in person, online (<https://bulletin.wfu.edu/procedures/admission/www.wfu.edu/admissions/>), or by mail:

P.O. Box 7305  
Winston-Salem, North Carolina 27109-7305

It should be completed and returned to that office no later than January 1 for the fall semester. Most admissions decisions for the fall semester are made by April 1, with prompt notification of applicants. For the spring semester, applications should be completed and returned no later than November 15.

The admission application requires records and recommendations directly from secondary school officials. Submission of standardized test scores is optional. If submitting scores, they should be sent directly to the University by the official testing service. A nonrefundable \$65 fee to cover the cost of processing must accompany an application. It cannot be applied to later charges for accepted students or refunded for others. The University reserves the right to reject any application without explanation.

A \$500 nonrefundable admission deposit is required of all regularly admitted students and must be sent to the Office of Undergraduate Admissions no later than May 1 following notice of acceptance. It is credited toward first semester fees and is nonrefundable. Students notified of acceptance after May 1 for the

fall semester or November 1 for the spring semester should make a nonrefundable admission deposit within two weeks of notification. Failure to make the admission deposit is taken as cancellation of application by the student. No deposit is required for summer session enrollment.

## Early Decision

Wake Forest has two binding early decision plans for students who have decided conclusively that Wake Forest is their first college choice. While early decision applicants may submit regular decision applications to other institutions, Wake Forest must be the applicant's first choice and only early decision application. Students, parents, and school counselors must sign the Early Decision Agreement stating that the applicant will enroll if admitted and will withdraw all applications to other colleges upon acceptance to Wake Forest.

Early Decision I (ED I) students may apply after completion of the junior year but no later than November 15. ED I applicants are notified on a rolling basis, typically six to eight weeks after the application is completed.

Early Decision II (ED II) applicants must follow the same exclusivity guidelines as required for ED I. The ED II application deadline is January 1. ED II is not rolling; decisions are released in mid-February.

A \$500 enrollment deposit is due within two weeks of acceptance notification for both ED I and ED II.

## Admission of Students with Disabilities

Wake Forest College will consider the application of any qualified student, regardless of disability, on the basis of the selection criteria established by the University which include personal and academic merit. Upon matriculation, all students will be required to meet the same standards for graduation.

The University endeavors to provide facilities which are in compliance with all laws and regulations regarding access for individuals with disabilities. Additionally, special services are available to reasonably accommodate students with disabilities. For more information on assistance for undergraduate students, please contact the director of the Learning Assistance Center, at 336-758-5929 or refer to Disability Services under Campus Life on the Wake Forest website.

## Admission of Transfer Students

The number of transfer students who can be admitted each year depends upon the availability of space in the first-year (second semester), sophomore, and junior classes. Transfer students must be eligible for readmission to the last college attended and must supply a Dean's Statement(s) from all colleges attended. The Dean's Statement addresses any disciplinary action that may have been taken against the student for academic or non-academic reasons. The student must have an overall average of at least C on all college work attempted.

Courses satisfactorily completed in other accredited colleges are accepted subject to faculty approval. In general, no credit is allowed for courses not found in the Wake Forest curriculum. To earn a baccalaureate degree from Wake Forest University, a minimum of half of the degree requirements must be completed at Wake Forest, the senior year and one other.

Additionally, Wake Forest has a six-semester (typically three-year) residency requirement and is one of the few universities in the

country that guarantees housing to students in good standing for eight semesters. Students are required to live in campus housing their first three years unless they live with a parent or guardian in the Winston-Salem area. Students who study abroad during the fall or spring semesters are given credit for that time toward their residency requirement; summer sessions do NOT count toward residency requirements. Transfer students are expected to fulfill the six-semester residency requirement. However, transfer students who have lived on campus at another institution are given credit for that time toward their residency requirement. See "Housing" for more information.

## Student Health

### Student Health Service

The Student Health Service's goal is to promote and advance the health and wellbeing for all students. A physician-directed medical staff offers primary care services, urgent care, illness care, physical examinations, counseling, limited psychiatric care, allergy injections, immunizations, radiology, gynecological services, pharmacy, laboratory, sports medicine clinic, referral to specialists, and medical information and vaccinations related to travel to international destinations.

**Student Health Portal.** Students now can make most appointments online through the Student Health Portal. The best way to access this portal is through the SHS website (<http://shs.wfu.edu>). This is a secure way to make appointments, view published labs, print off a copy of your immunization history on file, print receipts and securely communicate with our clinic. SHS's primary way to communicate with students will be through their student email account. We send out appointment reminders 24 hours before your appointment and send messages for you to log into the Student Health Portal to view secure messages from the clinic. Students are encouraged to make appointments to be seen at the clinic. If you choose to walk in without an appointment, you will be seen by one of our staff nurses. The nurse will evaluate you and try to get you in with a medical provider if necessary and if one is available. We cannot guarantee the availability of a medical provider if you choose to come to the clinic without an appointment.

**Medical Charges.** Most services at SHS are covered by the Student Health Fee. In addition, there are discounted "fee-for-service" charges for medications, laboratory tests, observation care, procedures, and some supplies. Payment can be made by paying cash, check, Deacon One Card, Student Blue Insurance, or the charge can be transferred to the student's account in Office of Financial and Accounting Services. Each student is given a copy of the medical charges incurred on the date of service which can be used for insurance filing. Student Health Service does not participate nor do we file insurance claims on behalf of the patient.

**Radiology.** New to Student Health. As a partnership with Wake Forest Baptist Medical Center, Student Health now offers on site X-rays. With this partnership Wake Forest Baptist will be able to bill your medical insurance for services. All billing will be handled by Wake Forest Baptist and the remaining portion after your insurance processes the claim will be your responsibility.

**Confidentiality.** Student medical records are confidential. Medical records and information contained in the records may be shared with therapists and physicians who are involved in the student's care, and otherwise will not be released without the student's permission except as allowed by law. Students who wish to have their medical records or information

released to other parties should complete a release of information form at the time of each office visit or service.

**Class Excuses.** The responsibility for excusing students from class rests with the faculty. Consequently the Student Health Service does not issue "excuses" for students. Students who are evaluated at the Health Service are encouraged to discuss their medical situations with their professors. A receipt documenting visits is available to students at checkout. Information concerning hospitalization and prolonged illnesses is sent, with the student's permission, to the appropriate Dean.

**Student Insurance Program.** Health insurance is required as a condition of enrollment for all degree-seeking\* students at Wake Forest University. Students who demonstrate comparable coverage to WFU's health insurance plan and meet our criteria may waive the coverage provided by WFU. Information about the policy plan, process instructions and full information regarding eligibility can be found at <http://sip.studentlife.wfu.edu/>.

**Inclement Weather.** When the University is closed due to inclement weather, the Student Health Service will have limited staff and will be able to provide care only for injuries and urgent illnesses. Appointments may be rescheduled.

**Retention of Medical Records.** Student medical records are retained for 10 years after the last treatment, after which time they are destroyed. Immunization records are kept longer.

\* Certain part-time students are not eligible.

## Student Health Information and Immunization Form

All new students are required to complete this form. It must be received by the Student Health Service before June 30 for new students entering fall semester or before January 1 for new students entering spring semester. This form requires information in regard to documentation of immunizations required by the University and the State of North Carolina. This form is located at <http://shs.wfu.edu/forms/>.

## Immunization Policy

**North Carolina State Law** (G.S. 130A-152) requires documentation of certain immunizations for students attending a North Carolina college or university. Wake Forest University adheres to the State Law, also requiring WFU students to provide documentation of immunizations. Students must submit certification of these immunizations **prior to registration**. *Documentation should be on or attached to the completed "Health Information & Immunization form" provided by the Student Health Service* in order to assure correct identification of the student. The form is located at [shs.wfu.edu/forms/](http://shs.wfu.edu/forms/) (<http://shs.wfu.edu/forms/>). Acceptable documentation is a statement signed by the appropriate official(s) having custody of the records of immunization, such as a physician, county health department director. The State statute applies to all students except those registered in off-campus courses only, attending night or weekend classes, or taking a course load of four credit hours or less.

The American College Health Association recommendations and **North Carolina State law** require certification in accordance with the following.

**Required:**

- Tetanus/Diphtheria/Pertussis.** Students must document **three doses** of a combined tetanus diphtheria vaccine (DTaP, Td, or Tdap) of which one must be a Tdap after May 2005.
- Rubeola (Measles).** Students must document **two doses** of live virus measles vaccine given at least 30 days apart, on or after their first birthday unless
  - they were born prior to January 1, 1957 or
  - they have documentation of a titer indicating they are immune.
- Rubella (German measles).** Students must document that they have had one dose of live virus vaccine on or after their first birthday unless
  - they have documentation of a titer indicating they are immune, or
  - they will be 50 years old before they enroll. History of the disease is **not** acceptable.
- Mumps.** Students must document **two doses** of live virus mumps vaccine given at least 30 days apart, on or after their first birthday unless
  - they were born before January 1, 1957 or
  - they have documentation of a titer indicating they are immune. History of the disease is **not** acceptable.
- Polio.** Students must document that they have had a total of three doses of trivalent polio vaccine if they are less than 18 years of age when they enroll. One of these doses must be after the age of four years.
- Hepatitis B.** Students are required to document three doses of Hepatitis B vaccine if born on or after July 1, 1994. The first and second doses must be at least 28 days apart. The third dose must be at least 56 days (or eight weeks) after the second dose and at least 16 weeks after the first dose; the third dose cannot be given any earlier than 24 weeks of age. Regardless of age Hepatitis B vaccine is recommended for all students.
- Tuberculosis test (PPD or TB blood test).** Required within 6 months of the University registration date for
  - students who may have been exposed to tuberculosis or have signs or symptoms of active tuberculosis disease or
  - students who have lived more than 30 days in a country other than those designated as low risk for tuberculosis by Centers for Disease Control (CDC). If the student's tuberculosis test is positive, chest x-ray results and record of treatment must be documented.
- Meningococcal.** CDC recommends routine vaccination with quadrivalent meningococcal conjugate vaccine at age 11 or 12 years, with a booster dose at age 16 years. For adolescents who receive their first dose at age 13-15 years, a one-time booster dose should be administered after age 16 years. Persons who receive their first dose at age 16 years do not need a booster dose.

#### Recommended:

- Varicella.** The two-dose series is recommended. Discuss with your health care provider.
- Human Papillomavirus Vaccine (HPV/Gardasil).** A three-dose series.
- Pneumovax.** A vaccine which prevents illness from a strain of bacteria that can cause pneumonia and death. This vaccine is recommended for individuals 19 and older who have asthma or smoke. It is also recommended for those ages 2-64 with any of the following conditions: diabetes, sickle cell disease, lung disease,

cochlear implants, CSF leaks, or conditions or medication which lower resistance to infection.

- Hepatitis A.** A two-dose series.

**Immunizations required under North Carolina law must be documented within 30 days following registration.** After that time, students with incomplete documentation of immunizations will not be permitted to attend classes. Please note that some series require several months for completion.

## Tuition and Fees Expenses

Statements concerning expenses are not to be regarded as forming an irrevocable contract between the student and the University. The costs of instruction and other services outlined herein are those in effect on the date of publication of this bulletin, and the University reserves the right to change without notice the cost of instruction and other services at any time.

Charges are due in full on August 1 for the fall semester and December 1 for the spring semester. Faculty regulations require that student accounts be settled in full before the student is entitled to receive an official transcript or diploma, or to register for classes.

If the University deems it necessary to engage the services of a collection agency or attorney to collect or to settle any dispute in connection with an unpaid balance on a student account, the student will be liable for all attorney's fees, reasonable expenses and costs incurred.

## Tuition

Fee	Per Semester	Per Year
Full-time	\$28,361	\$56,722
Part-time	\$2,352/semester hour*	
Student Activity Fee	\$100	\$200
Student Health Fee	\$233	\$466
Audit Fee	\$75/semester hour	
Wellness Fee	\$186	\$372

\* Students must receive approval prior to the start of classes for part-time study.

Students should expect an increase yearly in tuition. Students must obtain approval for part-time status prior to the beginning of the semester from the Office of Academic Advising to be eligible for part-time tuition.

Students enrolled in the College or in the School of Business for full-time residence credit are entitled to full privileges regarding libraries, laboratories, athletic contests, concerts, publications, the Student Union, the University Theatre, and Student Health Services. Part-time students are entitled to the use of the libraries, laboratories, and Student Health Services but not to the other privileges mentioned above.

Students are required to arrive on campus by the last day to add a course for each semester. Students who do not arrive by this date and have not attended or participated in any classes will be refunded full tuition for that semester, less the deposit.

## Room Rates

Room Type	Per Semester	Per Year
Deacon Place rooms	\$5,977	\$11,954
Single rooms and all apartments	\$5,837	\$11,674
Double rooms	\$4,924	\$9,848
Triple rooms	\$4,375	\$8,750

## Meal Plans

All resident students are required to sign-up for a meal plan. Choose the plan that best fits your lifestyle and the minimum plan for your housing type. To select your plan, first, log in to the Housing Portal (<https://wfu.starrezhousing.com/StarRezPortalX/>). Off-campus residents may purchase a meal plan, but are not required to do so. For specific details on all meal plans choices, including the specific meal plans and prices, please visit Deacon Dining's website (<https://www.deacondining.com/meal-plans/undergraduate-meal-plans/>).

All students, regardless of class year, can change (increase or decrease) their meal plan for the fall semester through August 1, adhering to area and class year minimums. **Plan decreases for the fall semester are not allowed after August 1**; however, plan increases will be accepted through September 30 adhering to area and class year minimums. Charges will not be pro-rated. **Plan decreases for the spring semester are not allowed after January 3**; however, plan increases will be accepted through January 31 adhering to area and class year minimums.

## Deacon Dollars

In addition to a meal plan, students may also purchase Deacon Dollars. The Deacon Dollar account is a debit account system on the student ID card that allows purchases throughout campus. An amount of \$1,000 per semester is recommended for campus purchases at the Bookstore, Benson Food Court, Subway, convenience stores, and all other dining locations.

## Meal Plan Options

Meal Plan	Food Dollars	Cost/Semester
Freedom Plan	\$400	\$3,743 (Available to everyone; Includes 10 Guest Meals)
Black Plan	\$400	\$3,185 (Available to everyone, including first-year students)
Base Plan	\$400	\$2,836 (First-year students minimum, available to everyone)
Gold Plan	\$800	\$2,725 (Available to all upper-class and off-campus students)
Screamin' Plan	\$450	\$1,882 (Minimum for Quad, Palmer/Piccolo, Dogwood & Magnolia. Also available to Apartments, Road Houses and off campus only)

Apartment Style Plan	\$300	\$1,079 (Minimum for all Apartments (including Martin & Polo) and Road Houses. Also available to off-campus students)
Commuter Plan	\$250	\$676 (Available to off-campus students only)**
Forestry Plan	\$150	\$2836

\*\* *Commuter students only*

## Other Charges/Fees

*An admission application fee* of \$65 is required with each application for admission to cover the cost of processing and is nonrefundable.

*An admission deposit* of \$500 is required for students applying to Wake Forest University. All admissions deposits must be submitted to the director of admissions and are nonrefundable. The applicable deposit is credited to the student's charges for the semester for which he or she has been accepted for admission.

*Individual instruction music fees* are required in addition to tuition for students enrolling for individual study in applied music in the Department of Music and are billed to the student account by Financial Services. The fee is \$325 for ½-hour music classes and \$650 for 1-hour music classes with a maximum fee of \$650 per semester.

*Library fees* are charged for lost or damaged books and are payable in the library.

*A one-time new-student orientation fee* of \$270 is charged to all students in the fall semester.

*A student health fee* of \$466 per year is charged for all full-time Reynolda Campus students.

*A tuition deposit* of \$500 is required by March 31st of students enrolled in the spring semester who expect to return for the fall semester. It is credited to the student's fall semester University charges and is nonrefundable.

*Returned check fee* of \$25 is charged for each returned check or returned DEAC payment by the Office of Financial and Accounting Services.

*A study abroad enrollment fee* is charged to students enrolled in an Affiliate (non-Wake Forest) program. The fee is 12% of tuition for the semester (\$3,404 per semester for 2020/2021).

## Student Health Insurance

*Student Health Insurance Premium.* Wake Forest University requires health insurance for all full-time, degree-seeking students. Students who demonstrate coverage that meets our criteria may waive the insurance provided by WFU. Students may apply for a waiver or enroll at <http://www.bcbsnc.com/wfu> (<http://www.bcbsnc.com/wfu/>) beginning June 1 st. Premiums for student health insurance will be determined each year and published on the Wake Forest University website. Complete details and criteria can be found at <https://shi.wfu.edu/>.

*Medical Leave Continuous Enrollment Status.* Students enrolled in the health insurance plan may continue coverage for a maximum of one year while on medical continuous enrollment status approved by

the University. Students must intend to return and remain a degree-seeking candidate and remit appropriate premiums. To determine if you are eligible, please contact Student Blue for more information at 800-579-8022 or Ann Madigan at 336-758-4247.

## Refunds

### Refund of Charges Policy and Return of Financial Aid Funds Policies

A student who officially withdraws or officially is granted continuous enrollment status during a semester may be entitled to a refund of certain charges as outlined in the Tuition and Fees Refund Policy (below). A withdrawal, official or otherwise, or grant of continuous enrollment status also affects financial aid eligibility, as outlined in the federal Return of Title IV Program Funds Policy and the Return of Non-Title IV Program Funds Policy. A student using scholarships, grants, or loans to pay educational expenses, whose account was paid-in-full prior to withdrawal or grant of continuous enrollment status, is likely to owe the University after withdrawal or grant of continuous enrollment status. Procedures for such changes of status are coordinated by the Office of Academic Advising.

### Tuition and Fees Refund Policy

A student who officially withdraws or officially is granted continuous enrollment status during a semester may be entitled to an adjustment to tuition and housing depending on the date of withdrawal or grant of continuous enrollment status. If a tuition adjustment results in a credit balance, the student can elect to receive a refund of the credit balance or leave the balance on the account for future terms. Any adjustment of room rent is based on when the student has checked out of his/her residence hall after withdrawing or beginning continuous enrollment status. Unused meal plan funds are refunded on a weekly pro-rata basis. There is no adjustment for mandatory fees after the first day of class. Fees for individual music instruction courses are refunded on the same basis as tuition. Parking registration fees are not refundable if the decal has been placed on the vehicle. Tuition, fees, housing, and related charges are not automatically refunded for findings of responsibility within the undergraduate student judicial review process but are refunded at the same rate listed below. Return of Title IV funds are handled in accordance with federal law.

### Schedule of Adjustments for Withdrawal or Continuous Enrollment Start Date, Fall and Spring Semesters

Official Date	Tuition Refunded
Before classes begin	100% tuition (-) deposit
First week of classes	90%
Second week of classes	75%
Third week of classes	50%
Fourth week of classes	30%
Fifth week of classes	20%
After fifth week of classes	0%

### Schedule of Adjustments for Withdrawal or Continuous Enrollment Start Date, Summer Sessions

Official Date	Tuition Refunded
First three class days	100%
Fourth class day	75%

Fifth class day	50%
Sixth class day	25%
After sixth class day	0%

Students are responsible for officially dropping courses to be eligible for a refund. Nonpayment for classes for which a student is registered or non-attendance in a registered class does not release the student from financial obligation and will not drop the student from the class. Student Financial Services calculates the refund of charges and will apply the amount of tuition refunded in the schedule of adjustment timelines listed above. Student Financial Services has available an example of the application of the University Refund of Charges Policy. If charges originally paid by financial aid funds are no longer covered after financial aid funds are returned to the programs, the student is responsible for the remaining balance. If charges originally paid and adjusted leave a credit balance on the account, the student is responsible for completing an online student refund request at [finance.wfu.edu/sfs/student-refund](http://finance.wfu.edu/sfs/student-refund) (<http://finance.wfu.edu/sfs/student-refund/>).

### Return of Title IV Program Funds Policy

The 1998 amendments to the Higher Education Act (HEA) of 1965 (Section 484B), and subsequent regulations issued by the United States Department of Education (34 CFR 668.22), establish a policy for the return of Title IV, HEA Program grant and loan funds for a recipient who withdraws. Wake Forest University's continuous enrollment policy does not exempt any student from the requirements of the Return of Title IV Funds policy; nor does it extend federal student loan deferment benefits. Title IV Funds subject to return include the following aid programs: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Iraq & Afghanistan Service Grant, Teacher Education Assistance for College & Higher Education Grant, Federal Perkins Loan, Federal Direct Loan (subsidized and unsubsidized), and Federal Direct PLUS Loan.

Title IV aid is awarded and paid on a payment period basis. For students enrolled in a single session or module of a payment period (such as summer), the single session or module is the payment period. For students who are awarded Title IV aid based on a reported registration in multiple sessions or modules of a payment period, the payment period is the beginning (start date) of the first session or module through the end (last day of exams) of the last session or module. Students who do not complete a payment period upon which Title IV aid was awarded, are considered to be withdrawn from the payment period and are subject to the Return of Title IV Program Funds Policy.

The percentage of the payment period completed is determined by dividing the total number of calendar days comprising the payment period (excluding breaks of five or more consecutive days) into the number of calendar days completed. The percentage of Title IV grant and loan funds earned is:

- up through the 60% point in time, the percentage of the payment period completed,
- after the 60% point in time, 100%. The amount of Title IV grant and loan funds unearned is the complement of the percentage of earned Title IV funds applied to the total amount of Title IV funds disbursed (including funds that were not disbursed but could have been disbursed, i.e., post-withdrawal or post-grant of continuous enrollment status disbursements). If the amount earned is less than the amount disbursed, the difference is returned to the Title IV programs. If the amount earned is greater than the amount disbursed,

the difference is treated as a late disbursement in accordance with the federal rules for late disbursements.

Institutional charges (costs) include tuition and required fees, on-campus room rental, and on-campus meal plan. The federal Return of Title IV Funds policy requires that federal aid be considered as first applied toward institutional charges, regardless of other non-federal aid received.

Unearned funds, up to the amount of total institutional charges multiplied by the unearned percentage of funds, are returned by the University; the return of Title IV Program funds may be rounded to the nearest dollar for each aid source. The student returns any portion of unearned funds not returned by the University. A student (or parent for PLUS loans) repays the calculated amount attributable to a Title IV loan program according to the loan's terms. If repayment of grant funds by the student is required, only 50% of the unearned amount must be repaid. A student repays a Title IV grant program subject to repayment arrangements satisfactory to the University or the Secretary of Education's overpayment collection procedures.

Funds returned are credited in the following order: Federal Direct Unsubsidized Loans, Federal Direct Subsidized Loans, Federal Perkins Loans, Federal PLUS Loans, Federal Pell Grants, Federal Supplemental Educational Opportunity Grants, Teacher Education Assistance for College & Higher Education Grants, and other Title IV funds for which a return of funds is required.

The Office of Student Financial Aid calculates the amount of unearned Title IV grant and loan funds, and has available examples of the application of this federal policy and a copy of the relevant Code of Federal Regulations section (CFR 668.22).

## Return of Non-Title IV Program Funds Policy

A student who drops to less-than-full-time enrollment within the timeframe to drop courses as published in the academic calendar loses eligibility for all institutional aid for the entire term. For financial aid purposes, full-time enrollment is defined as twelve or more hours each semester.

The Office of Student Financial Aid calculates the amount of non-Title IV program funds to be returned to the various programs when a recipient withdraws or is granted continuous enrollment status. The return of non-Title IV Program funds may be rounded to the nearest dollar for each aid source.

Return of funds to various state and private aid programs is determined by specific program rules. If rules allow, state and private loan funds are returned before gift funds. State and private funds may be retained in amounts necessary to satisfy the student's remaining University charges or adjusted need, whichever is larger.

Awards from institutional funds for which all disbursement requirements have not been met by the student prior to withdrawal or change to continuous enrollment status are canceled and no disbursements are made.

Upon withdrawal or change to continuous enrollment status, an adjusted estimated cost of attendance (COA) is established in two parts. For an on-campus student, the first part equals the adjusted tuition and room rental charges (not to exceed the standard allowance, and not including charges that result from a student remaining in his/her room after the date of withdrawal) and the standard allowance for books

and supplies; the second part equals pro-rated estimates (by weeks) of meal, transportation, and personal living expenses. For an off-campus student, the first part equals the adjusted tuition charge and the standard allowance for books and supplies; the second part equals pro-rated estimates (by weeks) of room, meal, transportation, and personal living expenses.

If the adjusted COA is greater than the full semester expected family contribution (EFC), the student retains institutional aid (in the same mix of initially-awarded gift and loan), up to the amount required to meet the adjusted need and not exceeding the initial amount(s). **The EFC represents a best estimate of a family's capacity (relative to other families) to absorb, over time, the costs of education. For a student withdrawing or changing to continuous enrollment status, the full EFC is expected to support educational expenses incurred, prior to any support from aid programs.** For purposes of this calculation, a student who receives only merit-based institutional gift is considered to have an EFC equal to the full semester COA minus the amount of that gift. The order in which each institutional fund is reduced is determined on a case-by-case basis by the aid office, with the guiding principle being the return of funds to University accounts most likely to be needed by other students.

**A student who withdraws or changes to continuous enrollment status after receiving a cash disbursement must repay Wake Forest scholarship funds up to the amount of Title IV funds that the University must return.** Fines and other incidental charges not included in the financial aid COA are solely the responsibility of the student. Required returns of funds to all financial aid programs are made prior to the refund to the student.

## Parking

### Motor Vehicle Registration and Fees

*All students, both resident and commuter* (including those students who reside off campus, in student apartments, theme, and satellite houses), who operate a vehicle on Wake Forest property, day or night (including after 4:00 p.m. weekdays and anytime on weekends), must register their vehicle they operate, whether it is in the student's name or a family member's name. **A student cannot register a vehicle owned or operated by another student and doing so can result in an honor code violation for both parties involved.** Vehicle registration must be completed within 1 business day from the first time the vehicle is brought to campus. To be compliant with the vehicle registration process, permits must be ordered on-line and picked-up from the appropriate location described below. Both the gate pass and parking permit must be adhered to the vehicle it was assigned in accordance with package instructions.

### Parking Options

- First-year students are required to register their vehicle and park off campus at the University Corporate Center (UCC) in the designated area, which is adjacent to Bridger Field House.
- Sophomore students are required to register their vehicle and park off campus in Lot Z2, which is located on the north side of Polo Rd. Parking in the sophomore parking lot (Z2) is limited. When lot Z2 is sold out, permits for the overflow lot, the UCC Lot, will be the only permits available to sophomores. The UCC permit is not available online. A waitlist will be available when/if Z2 permits sell out. If we determine space is available at a later date, we will honor the waitlist. You are encouraged to order the UCC permit, even if on the waitlist, since there is no guarantee it will be honored.

- Junior and senior resident students are required to register their vehicle and have the option to park on-campus or the UCC lot. UCC permits are only available in the parking office, not online.
- Commuting upper-class students are required to register their vehicle and have the options to park on campus (on-campus commuter permits are limited and sold on a first-come first-serve basis), off campus (Winston-Salem First and the designated lot in Reynolda Village) or the UCC lot. A waitlist will be available, if/when on-campus or Winston Salem First/Reynolda Village commuter permits sell out. If we determine space is available in either of these areas at a later time, we will honor the waitlist. You are encouraged to register for a permit, even if on the waitlist. There is no guarantee the waitlist will be honored.
- The UCC parking permit is available to those who ride the shuttle to campus from apartment complexes or students who otherwise reside in off-campus housing and walk or bike to campus between 8:00 a.m. and 4:00 p.m., Monday-Friday. The permits must be placed on the vehicle to be considered registered to park on campus after 4:00 p.m. on weekdays and on weekends.

Fees for parking options can be found online during the vehicle registration process at <https://parking.wfu.edu/parking-info/student-parking-information/>.

## Online Registration and Permit Distribution

All permits can be ordered online at <https://wfuparking.t2hosted.com/cm/index.aspx> (<https://wfuparking.t2hosted.com/cm/>). WFU IDs are required to pick up permits, if not delivered to a campus P.O. Box.

### First Year Students Permit Distribution Information

- Permits ordered on or before August 16, 2020:
  - **Pickup Date:** Wednesday, August 19, 2020 - Campus Services Day
  - **Pickup Time:** Between 8:00 a.m. – 4:00 p.m.
  - **Pickup Location:** Benson University Center, Room 409. Look for the "Transportation and Parking Services" sign. Additional information will be available on alternative transportation (shuttles, Zipcar, etc.) during this time.
- Permits ordered after August 16, 2020 OR you did not pick up permits at Campus Services Day:
  - **Pickup Date:** Saturday August 22 or Sunday August 23
  - **Pickup Time:** 9:00 a.m. – 3:30 p.m.
  - **Pickup Location:** Alumni Hall, Room 138
- Permits ordered after August 16, 2020 AND you did not pick up permits at Campus Services Day or August 22 or August 23 in Alumni Hall:
  - **Pickup Date:** Monday, August 24 and thereafter
  - **Pickup Time:** Mon. – Thurs. 8:30 a.m. – 4:30 p.m. and Friday 8:30 a.m. – 3:00 p.m.
  - **Pickup Location:** Transportation and Parking Services office in Alumni Hall, Room 138. **Expect long lines and delays for distribution at this location.** Your Wake Forest ID is required to pick up your permit.
  - **First-year students Permits Will Not Be Mailed to a Campus P.O. Box.**

### Resident Upper-class Students Permit Distribution Information

- Permits ordered on or before August 13, 2020:
  - Permits will be available in your Campus P.O. Box.
  - If you met the deadline and your permit is not in your Campus P.O. Box, inquire with Mail Services regarding your P.O. Box.

- **Permits will not be mailed to a Campus P.O. Box if you did not register online by August 16.**
- Permits ordered after August 13:
  - **Pickup Date:** Saturday August 22 and Sunday August 23
  - **Pickup Time:** 9:00 a.m. – 3:30 p.m.
  - **Pickup Location:** Alumni Hall, Room 138
- Permits ordered after August 13 or you did not pick up permits in Alumni Hall on August 22 or 23:
  - **Pickup Date:** Monday, August 24 and thereafter
  - **Pickup Time:** Monday through Thursday 8:30 a.m. – 4:30 p.m. and Friday 8:30 a.m. – 3:00 p.m.
  - **Pickup Location:** Transportation and Parking Services office in Alumni Hall. **Expect long lines and delays for distribution at this location.** Your Wake Forest ID is required to pick up your permit.

### Undergraduate Commuter, Arts and Sciences Graduate Student or Divinity Student

- Permits ordered on or before August 18, 2020:
  - **Pickup Date:** Saturday August 22 or Sunday August 23
  - **Pickup Time:** Between 9:00 a.m. and 3:30 p.m.
  - **Pickup Location:** Alumni Hall, Room 138
  - Your Wake Forest ID is required to pick up your permit.
- Permits ordered after August 18 OR you did not pick up permits on August 22 or 23 in Alumni Hall:
  - **Pickup Date:** Monday, August 24, 2020 and thereafter
  - **Pickup Time:** Monday through Thursday 8:30 a.m. – 4:30 p.m. and Friday 8:30 a.m. – 3:00 p.m.
  - **Pickup Location:** Transportation and Parking Services Office in Alumni Hall. **Expect long lines and delays for distribution at this location.** Your Wake Forest ID is required to pick up your permit.

Fines are assessed against any person visiting Wake Forest University and violating parking regulations and range from \$25 to \$250. Visitors are subject to the parking rules and regulations found at <https://wfuparking.t2hosted.com/cm/index.aspx> (<https://wfuparking.t2hosted.com/cm/>). Students are responsible for their visitors. Students will be held financially responsible for citation fines issued to vehicles driven by family members or by friends who use a Wake Forest student's vehicle. Visitors who plan to park on campus for more than one day require a visitor parking pass. Visitor parking passes can be obtained from the Transportation and Parking Services office.

The Transportation and Parking Services office is located in Alumni Hall, Suite 138. Office hours are 8:30 a.m. to 4:30 p.m., Monday through Thursday and 8:30 a.m. and 3:00 p.m. on Friday.

For more information call 336-758-PARK or email [parking@wfu.edu](mailto:parking@wfu.edu).

## Housing

Wake Forest has a six-semester (typically three-year) residency requirement and is one of the few universities in the country that guarantees housing to students in good standing for eight semesters.

Students are required to live in campus housing their first three years unless they live with a parent or guardian in the Winston-Salem area. Students who study abroad during the fall or spring semesters are given credit for that time toward their residency requirement; summer sessions do NOT count toward residency requirements.



Transfer students are expected to fulfill the six-semester residency requirement. However, transfer students who have lived on campus at another institution are given credit for that time toward their residency requirement.

Eight semesters of on-campus housing are guaranteed for residential students who pay their tuition deposit by the published deadline each semester. Students who lose housing eligibility due to disciplinary or academic deficiency are no longer eligible for the housing guarantee. Additionally, students who successfully petition to live off campus or have fulfilled their residency requirement and do not select housing during the room selection process are also no longer guaranteed housing on campus.

For more information about the Office of Residence Life and Housing or their processes and policies, please visit their website at [rlh.wfu.edu](https://rlh.wfu.edu) (<https://rlh.wfu.edu/>).

## Off-Campus Housing

**Petition to be Released.** Students requesting to be released from the University's residency requirement must petition for approval to reside off-campus. Additionally, students who wish to change their residency status (on-campus to off-campus day) to live with parents at their permanent home in the Winston-Salem area may petition to be released.

**Exceptions to the residency requirement for reasons other than living at home in the Winston-Salem area are typically very rare and only granted for individually compelling circumstances.** If your petition to move off-campus is granted, you are reclassified as a non-resident student and will no longer be eligible for any part of guaranteed campus housing (including Greek Block housing). All students who are released and remain enrolled as full-time students must register their off-campus address with the Office of Residence Life and Housing.

Students on named scholarships are reminded they must maintain four years of campus residency. Exceptions are rare and may be granted at the discretion of the Scholarship Committee.

Students who are discovered to have moved off-campus without receiving prior permission will, minimally, have their class registration held (or possibly canceled), risk financial penalties, and be required to submit an application for review. If the application is approved, the student will receive a warning similar to those students who have had a law enforcement officer visit their residence (see Off-Campus Conduct (<https://rlh.wfu.edu/housing/off-campus-living/student-resources/off-campus-conduct/>)). If the application is denied, the student will need to apply to return to campus housing (based on space availability).

For more information on the petition process and other policies related to living off-campus, please visit the Office of Residence Life and Housing's Off-Campus Housing page (<https://rlh.wfu.edu/housing/off-campus-living/student-resources/policies/>).

**Off-Campus Address Registration.** Eligible students choosing to live off-campus must register their residential address, thereby declaring their compliance with the University's off-campus housing policy. Enrollment and registration for classes each semester are conditioned upon verification of compliance by the Office of Residence Life and Housing. All students living off-campus, including those living in apartment complexes, will be required to provide addresses.

City of Winston-Salem ordinances state that there shall be no more than four (4) individuals that are not related by blood, adoption, or marriage

living together in a single-family dwelling unit. The Office of Residence Life and Housing will monitor the number of students that are granted permission to reside in residential areas zoned for these units. The office will, at no time, grant permission to any individual(s) to exceed the number, nor is there an appeal process to do so.

Students currently residing, or desiring to move, off-campus must register their address each year to comply with the policy and to ensure individual records are updated. Though a student has registered to reside off-campus, the application submitted is purely a request, and it should not be inferred that approval has been received. Students whose applications are approved will receive written notification. Once a student has been approved to reside off-campus, the local address provided is valid for one academic year only. Additionally, if a student changes location of residency, they must re-register their address and check to make sure that the location of residency is approved.

Continuing enrolled students who do not re-register to reside off-campus (prior to the expiration of the original approved local address) will have a hold placed on future class registration processes (or may risk having their registration canceled) until approval is received.

Students who previously lost, or lose during the current academic term, campus housing due to judicial sanctions also need to register to reside off-campus. Other populations of students who need to register upon acceptance to the University include transfer or any student classified with non-resident student status.

## Advising and Registration Orientation and Advising

For new students in the College, a required orientation program and a required meeting with the student's lower-division academic adviser precede the beginning of classes and the drop/add period. Some required orientation programs also occur during fall semester of the first year. The lower-division academic adviser provides guidance during and between registration periods until the student declares a major.

During orientation, advisers meet with students both individually and in small groups. A face-to-face meeting with the adviser is required before all subsequent registration periods. Students are encouraged to take the initiative in arranging additional meetings at any time to seek advice or other assistance. The lower-division adviser works with the student until the student declares a major, typically during the fourth semester. Then, an adviser in the student's major department is assigned.

## Registration

Registration for continuing students in the College and the School of Business undergraduate program begins in March for the fall and the summer terms, and in October for the spring term. Consultation with the academic adviser must be completed before registration. New students entering in the fall term register during the prior summer. Readmitted students and those approved for resumption of full- or part-time status, once officially advised, may work with the Office of the University Registrar staff to enroll in classes. Students currently enrolled at the University may register for the summer sessions classes. All tuition and fees must be paid in full to the Office of Financial and Accounting Services by the announced deadlines.

## Classification

Classification of students by class standing and as full-time or part-time is calculated in terms of semester hours earned.

The requirements for classification are as follows:

- *Sophomore*—completion of no fewer than 25 hours toward a degree;
- *Junior*—completion of no fewer than 55 hours toward a degree;
- *Senior*—completion of no fewer than 87 hours toward a degree.

## Course Load

Most courses in the College and the School of Business undergraduate program have a value of 3 credit hours, but they may vary from one-half hour to five hours. The normal load for a full-time undergraduate student is 15 credit hours per semester. The maximum credit hours allowed in the College without permission is 17, and the maximum allowed in the School of Business is 18. A student who feels that he or she has valid and compelling reasons to register for more than the maximum hours in a semester must seek permission starting each semester after the second round of registration appointments. Only if the adviser, the appropriate staff of the Office of Academic Advising, and the Committee on Academic Affairs agree that the proposed course load is in the best interest of the student will permission be granted. Non-business or non-accounting majors wishing to take courses in the School of Business must have met the specific courses' prerequisites and have permission of the instructor. Enrollment in the course is subject to space availability.

Twelve hours per semester constitute minimum full-time enrollment for undergraduates at the University. Recipients of Wake Forest scholarships and loans, as well as some types of federal aid, must be enrolled for at least 12 hours. Recipients of veterans' benefits, grants from state government, and other governmental aid must meet the guidelines of the appropriate agencies.

## Part-time Students

A student may not register for part-time status (i.e., fewer than 12 hours in a single semester) without specific permission from the Office of Academic Advising by the last day to add a class. Approval for part-time status requires that students pay for such work on a per hour basis. Petitions for part-time status after the last day to add a class will be denied, except in the case of special circumstances, and the student will be required to pay full tuition. Part-time students may be ineligible for campus housing unless an exception is made by the Office of Residence Life and Housing. For information regarding the consequences of part-time status on tuition, students should visit the office of Student Financial Services.

## Summer Full-time Status Policy

A Wake Forest University undergraduate student registered for one (1) or more credit hours at Wake Forest University during the summer is considered to be a full-time student during the summer part-of-term in which they are enrolled (Session I, Session II, or Full Summer).

**Important Note:** The above definition of full-time status during the summer session may not be coincident with requirements for Federal financial aid eligibility in the summer. For more information, contact Financial Aid (<https://financialaid.wfu.edu/>) (financial-aid@wfu.edu; 336-758-5154)

## Class Attendance

The responsibility for class attendance lies with the student, who is expected to attend classes regularly and punctually. A vital aspect of the residential college experience is attendance in the classroom; its value cannot be measured by testing procedures alone. Students are considered sufficiently mature to appreciate the necessity of regular attendance, to accept this personal responsibility, to demonstrate the self-discipline essential for such performance, and to recognize and accept the consequences of failure to attend. Students who cause their work or that of the class to suffer because of absence or lateness may be referred by the instructor to the appropriate dean in the Office of Academic Advising for suitable action. Any student who does not attend classes regularly or who demonstrates other evidence of academic irresponsibility is subject to such disciplinary action as the Committee on Academic Affairs may prescribe, including immediate suspension from the College or from the School of Business.

Students who miss class while acting as duly authorized representatives of the University at events and times approved by the appropriate dean are considered excused. The undergraduate faculties are sensitive to the religious practices of members of the student body. At the beginning of the semester, students who will be absent from class for religious observances should confer with the instructor(s) about the date of the absence. The disposition of missed assignments will be arranged between instructor and student. Students anticipating many excused absences should consult the instructor before enrolling in classes in which attendance and class participation count heavily toward the final grade. For policies pertaining to absences resulting from illness or other extenuating circumstances please see the statement under the Student Health Service section in this *Undergraduate Bulletin*.

## Auditing Courses

When space is available after the registration of degree-seeking students, others may request permission of the instructor to enter a class as auditors. No additional charge is made to full-time students in the College or the School of Business; for others the fee is \$75 per hour. Permission of the instructor is required. An auditor is subject to attendance regulations and to other conditions imposed by the instructor.

Although an auditor receives no credit, a notation of audit is made on the final grade report and entered on the academic record of students who have met the instructor's requirements. An audit may not be changed to a credit course or a credit course changed to an audit after the first official day of classes for each semester or term.

## Dropping a Course

Students may drop full term courses through the 26th class day. The last day in each term for dropping a class is listed on the Academic Calendar (<https://registrar.wfu.edu/calendars/>). A student who wishes to drop any course on or before this date must follow the procedure prescribed by the registrar.

## Drop/Add of Partial-Semester Courses

Students adding or dropping classes lasting for shorter durations than the full semester and/or that begin after the opening of the semester may add or drop those classes any time prior to the first class meeting, but instructor's permission may be required. The add and drop period for such classes is proportionate to the duration of the course. Consult with

the Academic Services Calendar (<https://registrar.wfu.edu/calendars/>) or the Office of the University Registrar for the enforced add and drop dates.

## Course Withdrawal

Students may withdraw from one or more full term courses from the 27th class day until five days after midterm grades are due. Students may withdraw from one or more half term courses from the 14th instructional day until the 22nd instructional day of each respective half of term. Intentions of course withdrawal (see details below) are due by 5pm on the respective last day for withdrawal. The last day in each term for withdrawing from a course is listed on the Academic Services Calendar (<https://registrar.wfu.edu/calendars/>).

A "W" grade will be recorded on a student's transcript for any course withdrawal during this period. In order for a course withdrawal to be processed, a student must complete a Course Withdrawal Notification Form through the Office of Academic Advising, consult with his or her course instructor, faculty adviser, as well as an academic counselor in the Office of Academic Advising and receive signatures from each. Signatures from the instructor and faculty adviser indicate only that consultation has occurred, not that they necessarily approve of the student's decision. Completed forms are turned in to the Office of the University Registrar by the Office of Academic Advising for processing.

## Independent Study, Individual Study, Directed Reading and Internships

Such work is ordinarily reserved for junior and senior students in the undergraduate schools. Any student requesting approval for such a course must possess a cumulative grade point average of at least 2.0 in Wake Forest courses. All such course requests must be approved by the appropriate department. The academic requirements must be completed during the semester in which a student is enrolled.

The number of credit hours the student registers for in an independent study, individual study, directed reading, or internship course may not be changed during the add period unless approved by the sponsoring faculty member.

## Undergraduates in Graduate Courses

In exceptional circumstances, undergraduate students may enroll in Wake Forest graduate-level courses. Such students must have junior or senior status and must obtain written permission from the course instructor, the student's adviser, and the associate dean for academic advising. Typically, undergraduate students will not be allowed to take 600-level classes for credit if the related 300-level class is available; undergraduate students who wish to take a cross-listed course at the graduate level must follow the procedure described above. Graduate programs have no obligation to admit undergraduate students to their courses and do so at their own discretion.

## Examinations and Grading

### Examinations

Final examinations for each class are scheduled at specific periods during the six final examination days at the end of the term. All examinations are conducted in accordance with the Honor and Ethics System adopted by the student body and approved by the faculty. Students should have no more than two final exams in a 24-hour

period. They should be allowed to reschedule exams in excess of two in a 24-hour period.

### Grading

For most courses carrying undergraduate credit, there are twelve final grades: A (exceptionally high achievement), A-, B+, B (superior), B-, C+, C (satisfactory), C-, D+, D, D- (passing but unsatisfactory), and F (failure).

**Incomplete Grade Designation.** "I" (incomplete) may be assigned only when a student fails to complete the work of a course because of illness or some other extenuating circumstance that is beyond the student's control. If the work recorded as "I" is not completed within thirty days after the student begins his or her next semester, the grade is automatically changed to the grade of F.

**Not Reported Grade Designation.** "NR" (Not Reported) is an administrative designation assigned by the University Registrar indicating that a faculty member has not reported a grade or grades by the reporting deadline. It is expected that the appropriate earned grade will quickly be reported. However, if the NR grade is not replaced within 45 days after the student enters his or her next semester, the NR is automatically changed to a grade of F.

**Grade Points.** Grades are assigned grade points per hour for the computation of academic averages, class standing, and eligibility for continuation, as follows:

Grade	Points
for each grade of A	4.00 points
for each grade of A-	3.67 points
for each grade of B+	3.33 points
for each grade of B	3.00 points
for each grade of B-	2.67 points
for each grade of C+	2.33 points
for each grade of C	2.00 points
for each grade of C-	1.67 points
for each grade of D+	1.33 points
for each grade of D	1.00 points
for each grade of D-	0.67 points
for each grade of F	no points
for each grade of I	no points
for each grade of NR	no points

**Pass/Fail.** To encourage students to venture into fields outside their major areas of competence and concentration, the College makes available the option, under certain conditions, of registering in courses on a pass/fail basis. The criteria for a passing grade can vary, and is established by the instructor. Courses taken under the pass/fail option yield full credit when passed but, whether passed or not, are not computed in the grade point average. The last day to change from grade mode to pass/fail is the drop date. The last day to change from pass/fail to grade mode is the Friday of the twelfth week of the semester.

A student may count no more than 18 hours taken on a pass/fail basis toward the degree. First-year students are not eligible to elect the pass/fail mode, but may enroll for courses offered only on a pass/fail basis. Second, third, and fourth-year students at Wake Forest may elect no more than 4 pass/fail hours in a given semester. Courses used to fulfill core, quantitative reasoning, cultural diversity, major, minor, or certificate program requirements may not be taken on a pass/fail basis unless

they are offered only on that basis. Courses in the major(s) not used for satisfying major requirements may be taken on a pass/fail basis if the department of the major does not specify otherwise and if the student obtains the written or electronic permission of his or her academic adviser and the course instructor. Any student who is eligible to enroll for pass/fail credit must follow the prescribed enrollment process overseen by the Office of the University Registrar.

No courses in the School of Business may be taken pass/fail unless they are offered only on that basis.

## Grade Reports and Transcripts

The registrar will announce midterm and final grades in the students' WIN account, usually the day following the faculty grade reporting deadline.

Official transcripts of the permanent educational record will be issued by the registrar upon the student's request, unless there are unpaid financial obligations to the University or other unresolved issues.

Under the Family Educational Rights and Privacy Act (FERPA), the University has the right to inform parents/guardians of dependent students and certain other qualified individuals of the contents of the educational records.

## Dean's List

The Dean's List is issued after the end of the fall and spring semesters. It includes all full-time, degree-seeking students in the College and the School of Business who have a grade point average of 3.4 or better for a full-time course load in the semester and who have earned no grade below C during the semester.

## Graduation Distinctions (Latin Honors)

**Effective for the Class of 2024 forward**, the candidate for a degree with distinction must earn a cumulative grade point average (GPA), based on all grades earned in Wake Forest courses, sufficient to place the candidate in the top 30 percent of their graduating class, with the honors awarded at the following specific percentage cut offs:

- Top 5% are to be awarded the distinction of *summa cum laude*
- Next 10% are to be awarded the distinction of *magna cum laude*
- Next 15% are to be awarded the distinction of *cum laude*

Percentages will be calculated on the basis of those degree candidates for May (gpa cut-offs for May candidates will be in-effect for the following August and December degree candidates). Cumulative GPAs will be calculated to three decimal places and truncated without rounding.

**Policy ending with the 2023 graduating class:** Graduation distinctions are determined by the grade-point average system and are based entirely on grades earned in Wake Forest courses. A degree candidate with a cumulative average of not less than 3.8 for all courses attempted is graduated with the distinction *summa cum laude*. A candidate with a cumulative average of not less than 3.6 for all courses attempted is graduated with the distinction *magna cum laude*. A candidate with a cumulative average of not less than 3.4 for all courses attempted is graduated with the distinction *cum laude*. Details are available in the Office of the University Registrar.

## Repetition of Courses

A Wake Forest course can be repeated at Wake Forest if the grade earned is C- or lower. In this case, all grades received will appear on the

transcript, but the course will be counted only one time for credit. If a student fails a course previously passed, the hours originally earned will not be forfeited. For purposes of determining the cumulative grade point average, a course will be considered as attempted only once, and the grade points assigned will reflect the highest grade received. A grade of irreplaceable F received in a class as a consequence of an honor violation does not prevent a student from repeating the class, but if the repeat successfully earns credit for the class, both the repeat grade and the irreplaceable F will be included in the cumulative grade point average. Students seeking to repeat WRI 105 must petition the English department.

## Enrollment Policies and Procedures

### Continuous Enrollment Status

An undergraduate student who needs to interrupt his/her full- or part-time status for personal or medical reasons may petition for continuous enrollment status with the Office of Academic Advising. This status can be approved for one or two semesters. When students approved for continuous enrollment status wish to resume full- or part-time status, they must submit a notification to this effect to the Office of Academic Advising and any other information required by the Committee on Academic Affairs. See Resumption of Full- or Part-time Status for more details.

In the case of change to continuous enrollment status granted during an academic term for medical reasons, the student may request that no grades be recorded for that semester. Such requests require the formal support of either the Student Health Service or the University Counseling Center, and the student's standing in courses at the time of departure may be taken into consideration. The Committee on Academic Affairs has final authority on such requests.

Residence hall keys (if applicable), mailbox keys, the Wake Forest University ID card, along with any other pertinent University property items, must be returned to the appropriate offices. The student retains active enrollment status with the University, and retains email and registration privileges, and all applicable University policies will continue to apply. *Wake Forest University's policy on Continuous Enrollment Status does not exempt any student from the requirements of the Return of Title IV Funds policy; nor does it extend federal student loan deferment benefits.*

A continuous enrollment fee will be assessed.

### Withdrawal

A student who intends to interrupt full- or part-time status for more than two semesters on a voluntary or medical basis and is not granted continuous enrollment status (see above), or any student who is suspended for academic or judicial reasons, is deemed to have withdrawn from the University.

A student who initially requests continuous enrollment status but who has been in that status for more than two semesters (or one year), is reclassified as withdrawn, will no longer have registration privileges and an email account, and must return all university property to the appropriate office(s). In addition, any student who discontinues class attendance or does not properly resume full- or part-time status, but who has not properly requested continuous enrollment status in advance, will also be deemed to have withdrawn.

A student who discontinues class attendance during an academic term from the College or the School of Business without officially applying for

continuous enrollment status or withdrawal is assigned failing grades in all current courses, and is deemed to have withdrawn. All university property must be returned to the appropriate offices. Holds may be placed on the record of a student who does not return university property or those who have outstanding financial obligations to the university.

Withdrawn students do not retain email and registration privileges. Tuition, fees, room rent, and related charges will not be refunded for findings of responsibility within the undergraduate student judicial review process. Return of Title IV funds will be handled in accordance with federal law.

## Probation/Suspension

Any student who is placed on probation because of honor code or conduct code violations may be placed on such special academic probation as determined by the Committee on Academic Affairs. The Committee on Academic Affairs may at any time suspend or place on probation any student who has given evidence of academic irresponsibility, such as failing to attend class regularly, failing to complete papers, examinations, or other work on time, failure to earn more than six grade points in any semester, or failing to maintain a minimum GPA (see Requirements for Continuation).

If poor academic performance is attributable to circumstances over which the student clearly had no control (e.g., serious injury or illness), the student may, after consultation with an academic counselor or dean in the Office of Academic Advising, petition the Committee on Academic Affairs for further consideration of his or her status.

In deciding whether to permit exceptions to the foregoing eligibility requirements, the Committee on Academic Affairs will take into account such factors as convictions for violations of the College honor code or social conduct code, violations of the law, and any other behavior demonstrating disrespect for the rights of others.

Any student convicted of violating the honor code and, as a result, suspended from the University or assigned the penalty of "activities suspension" is ineligible to represent the University in any way until the period of suspension is completed and the student is returned to good standing. Such students also may not be initiated into any fraternity or sorority during the time of the sanction.

No student suspended from Wake Forest may take coursework at another institution and have that work transferred to Wake Forest for credit.

## Requirements for Continuation

A student's academic eligibility to continue is determined by the number of hours passed and the grade point average. The number of hours passed is the sum of the hours transferred from other institutions and the hours earned in the undergraduate schools of the University. The grade point average is computed only on work attempted in the undergraduate schools of the University and excludes both non-credit and pass/fail courses.

Students are expected to make reasonable and systematic progress toward the accomplishment of their degree programs. To be eligible to continue in the College, students must maintain:

For Hours Passed	A Minimum Cumulative GPA of
fewer than 30	1.60
at least 30, fewer than 60	1.70

at least 60, fewer than 90	1.80
90 and above	1.90

Students are responsible for knowing their academic standing at all times. Any student whose GPA falls below the required minimum will have a grace period of one semester to raise the average to the required level. Students also have the option of attending summer school at Wake Forest in an effort to raise the average.

The Committee on Academic Affairs will suspend students who earn six or fewer grade points in any given semester in courses other than CNS 353; military science courses; MUS 111-MUS 129 (ensemble courses); DCE 128; and elective 100-level courses in health and exercise science. In cases where failure was due to circumstances beyond the student's control, he or she may appeal to the Committee for an exception.

Any student who is in academic difficulty is urged to seek advice and counsel from his or her academic adviser, from the Office of Academic Advising, from the Learning Assistance Center, and from the University Counseling Center.

A student who has or develops a health problem which, in the judgment of the director of the Student Health Service, creates a danger to the safety and well-being of the student or others may be required to withdraw or convert to continuous enrollment status until the problem is resolved.

## Resumption of Full- or Part-Time Status

The Committee on Academic Affairs oversees matters affecting students who have been granted continuous enrollment status. A student who has been granted continuous enrollment status for medical or psychological reasons must submit documentation from his or her physician or therapist to either the director of the Student Health Service or the director of the University Counseling Center attesting to his or her readiness to resume a full academic program. The physician or therapist should also provide professional guidance to these directors as to the nature of the student's ongoing care once a resumption of full- or part-time status has been approved.

For students whose change to continuous enrollment status is based upon mental health needs, it will be understood that a resumption of full- or part-time status generally can be accomplished only after an appropriate recovery period. In all such instances, the student's resumption of full- or part-time status is contingent upon a statement from appropriate medical authorities that the medical condition has been sufficiently addressed so that normal study can be resumed.

Any student who has been granted continuous enrollment status and who hopes to receive transfer consideration for work done elsewhere must provide the University with a properly documented statement attesting to his or her good standing at the institution from which the transfer credit would come. (See Transfer Credit rules.) Additionally, an official copy of the student's transcript must be made available to the Office of the University Registrar.

Should a student, upon interruption of full- or part-time status, fail to comply with procedures for a change to withdrawn or continuous enrollment status, "holds" may be placed upon his or her record that will prevent consideration of readmission or resumption of full- or part-time status. Although a resumption of full- or part-time status can normally be approved (subject to medical or psychological approvals as described here), any request for resumption of full- or part-time status

to the University may be denied if a student has violated any laws or regulations or has engaged in conduct or exhibited behaviors that have demonstrated a disregard for the rights of others. Notification forms required for resumption of full- or part-time status and deadlines for submission are posted on the Office of Academic Advising website at <http://advising.wfu.edu>.

Deadlines for the receipt of all necessary information are as follows:

- *Fall Resumption - August 1*
- *Spring Resumption - December 1*
- *Summer Resumption - April 15.*

## Readmission

The Committee on Academic Affairs oversees the readmission of students who have withdrawn—voluntarily, for medical or psychological reasons, due to academic or judicial suspension, or otherwise. In making a decision on whether to readmit, the Committee considers both the academic and non-academic records of the student. A student who has withdrawn from the University for medical or psychological reasons must submit documentation from his or her physician or therapist to either the director of the Student Health Service or the director of the University Counseling Center attesting to his or her readiness to resume a full academic program. The physician or therapist should also provide professional guidance to these directors as to the nature of the student's ongoing care once readmission has been approved.

Any student who has withdrawn and who hopes to receive transfer consideration for work done elsewhere must provide the University with a properly documented statement attesting to his or her good standing at the institution from which the transfer credit would come. (See Transfer Credit rules.) Additionally, an official copy of the student's transcript must be made available to the Office of the University Registrar.

No student on judicial or academic probation or suspension from the University may take coursework at another institution and have that work transferred to the University for credit. Students whose withdrawals from the University were as the result of an honor or judicial conviction must satisfy fully any sanctions placed upon them prior to being considered for readmission.

Students who have been ineligible to continue for academic reasons must present to the Committee on Academic Affairs an intentional plan to raise their academic standing to acceptable standards. Should a student, upon withdrawal or granting of continuous enrollment status, fail to comply with proper withdrawal or continuous enrollment procedures, "holds" may be placed upon his or her record that will prevent consideration of readmission or resumption of full- or part-time status until such matters are resolved.

Any request for readmission to the University may be denied if a student has violated any laws or regulations or has engaged in conduct or exhibited behaviors that have demonstrated a disregard for the rights of others. Readmission forms and deadlines are posted on the Office of Academic Advising website at <http://advising.wfu.edu>.

Deadlines for the receipt of all necessary information are as follows:

- Fall Readmission - August 1*
- Spring Readmission - December 1*
- Summer Readmission - April 15.*

## Summer Study

In addition to regular courses, a number of special summer programs for credit are described in the bulletin of the summer session.

Courses taken outside the U.S. require, in addition, prior approval from the Center for Global Programs and Studies. Students must obtain program approval and course approval through the Center for Global Programs and Studies.

## Transfer Credit

### Advanced Placement, International Baccalaureate, and CLEP

Advanced Placement and International Baccalaureate credit for college level work done in high school is available on the basis of the Advanced Placement Examination of The College Board and International Baccalaureate (IB) subject tests. Students are not allowed to exempt divisional core requirements through the Advanced Placement Examination, the College Level Examination, or the International Baccalaureate subject tests. Although students who successfully complete AP or IB exams earn credit towards the 120 hours needed for graduation, such credit courses do not satisfy the divisional requirements as the student must complete the required divisional courses while enrolled at Wake Forest. Students are permitted to take courses at Wake Forest for which they have received Advanced Placement or International Baccalaureate credit. Students must contact the Registrar's Office in order to be allowed to do so. When this happens, students lose the AP or IB credit but the notation remains on the transcript. Once such credit has been forfeited it cannot be reinstated.

Under certain conditions, especially well-prepared applicants may be granted limited college credit through the subject tests of the College Level Examination Program (CLEP) of the Educational Testing Service. Such credit may be assigned with the approval of the department concerned or the dean of business.

## Transfer Credit

All work attempted in other colleges and universities must be reported to the Office of the University Registrar. Students wishing to receive transfer credit for work to be undertaken elsewhere must have a cumulative grade point average of no less than 2.0, must not be on academic probation or suspension of any kind from Wake Forest, and must obtain departmental approval following the prescribed process overseen by the Office of the University Registrar. For entering transfer students, credit may be accepted from accredited colleges and universities, including two-year colleges. For enrolled Wake Forest students and students readmitted to Wake Forest, transfer credit is accepted only from approved four-year institutions. For transfer hours to be accepted, the grade in any course must be C or better. Courses completed at other colleges or universities with the grade of C- or lower are not awarded transfer hours in Wake Forest. Of the 120 credit hours required for the baccalaureate, the minimum number of credit hours that must be earned in Wake Forest programs depends on whether the transferred courses were taken before or after enrolling at Wake Forest. (Refer to the Requirements for Degrees section of this Bulletin for more details.) Courses being considered for transfer that are not based on semester hour credits will not receive a higher conversion value than the value of the Wake Forest course.

After a student enrolls at Wake Forest, courses in anthropology, art, biology, chemistry, computer science, English, German, history,

mathematics, philosophy, physics, Russian, or sociology cannot transfer in to satisfy divisional requirements.

Applications for transfer credit from online and distance learning courses are evaluated on an individual basis. No more than 15 credit hours earned through fully online courses may be applied toward graduation; of these, no more than six credit hours may be transferred from another institution. It is the responsibility of the student to disclose to the Office of the University Registrar whether a class is an online or distance learning class. Undergraduate students in the College may not enroll in any online course for credit during their first two semesters at Wake Forest.

Dual enrollment courses, college level courses taken at institutions other than Wake Forest, are treated as transfer credit if the given course meets the University's standard criteria for transfer credit.

# FINANCIAL AID

*By regulation of the Board of Trustees, all financial aid must be approved by the Committee on Scholarships and Student Aid.*

Financial aid programs include institutional, state, and federal scholarship, loan, and work funds. Financial need is a factor in the awarding of most aid. The annual calculation of need, and therefore award amounts, may vary from year to year. Additional information is provided at <http://financialaid.wfu.edu/helpful-resources/info-undergrad-aid-recipients/>. IRS Publication 970 describes the possible taxability of scholarship assistance.

## Policy on Satisfactory Academic Progress for Financial Aid Eligibility

### Federal Financial Aid

Evaluation of students' satisfactory academic progress for purposes of federal financial aid eligibility is made at the end of each term (fall, spring, summer), to determine eligibility for the following term. Evaluation is also made upon students' readmittance and/or return to active status following a period of continuous enrollment status. The Higher Education Act mandates that institutions of higher education establish minimum standards of satisfactory academic progress for students receiving federal aid.

Wake Forest University makes these minimum standards applicable to all aid programs funded by the federal government, and applicable to all coursework taken by a student that is applicable to a bachelor's degree (regardless of the timing of the student's declaration of a major or change in major), all coursework accepted or credited toward a bachelor's degree (transfer hours, Advanced Placement hours, International Baccalaureate hours, College Level Examination Program hours, etc.), and all other coursework (repeated courses, graduate-level coursework, etc.) taken at Wake Forest while enrolled as an undergraduate student. Certain federal aid programs have higher academic and/or other requirements, which are communicated to recipients. The minimum standards of satisfactory academic progress for federal aid also apply to certain state aid programs, including the Need Based Scholarship for North Carolina residents. To maintain academic eligibility for federal aid, a student must:

**Complete the requirements for a bachelor's degree within a maximum number of hours attempted of 180** (including repeated courses, transfer hours, Advanced Placement hours, International Baccalaureate hours, College Level Examination Program hours, etc.). During a semester in which a student drops courses or withdraws or begins continuous enrollment status, the maximum number of hours attempted includes those hours attempted as of the earlier of

1. the withdrawal or continuous enrollment status effective date, or
2. the last day to drop a second part-of-term course without penalty (as published in the academic calendar).

**Pass at least two-thirds of those hours attempted in the undergraduate schools of the University** (including repeated courses, transfer hours, pass/fail courses, and hours attempted as a visiting or unclassified student). Incompletes count as hours attempted, unless from a non-credit course.

Audited classes do not count as hours attempted. During a semester in which a student drops courses or withdraws, hours attempted includes those hours attempted as of the earlier of

1. the withdrawal or continuous enrollment status effective date, or
2. the last day to drop a second part-of-term course without penalty (as published in the academic calendar).

**Maintain the following minimum cumulative Wake Forest University grade point average on all graded hours attempted** in the undergraduate schools of the University (including courses with a grade of incomplete):

For Hours Attempted of	A Minimum Cumulative GPA of
fewer than 30	1.60
at least 30, fewer than 60	1.70
at least 60, fewer than 90	1.80
90 and above	1.90

The Wake Forest University grade point average calculation excludes pass/fail courses. In cases where a student repeats a course for which he or she received a grade of C- or lower, the cumulative grade point average is calculated by considering the course as attempted only once, with the grade points assigned reflecting the highest grade received. However, this provision does not apply to any course for which the student has received the grade of an irreplaceable F. During a semester in which a student drops courses or withdraws, all hours attempted in the undergraduate schools of the University includes those hours attempted as of the earlier of

1. the withdrawal or continuous enrollment effective date, or
2. the last day to drop a second part-of-term course without penalty (as published in the academic calendar).

To maintain academic eligibility for federal student aid, a student must also must avoid academic suspension by the Committee on Academic Affairs, by earning more than six grade points in any given semester as described in the "Requirements for Continuation" section of the Undergraduate Bulletin.

The policy on satisfactory academic progress applies only to the general eligibility for aid consideration. There are other federally-mandated requirements a student must meet to receive federal aid. For instance, certain federal loan programs also require either the passage of a period of time or the advancing of a grade level between annual maximum borrowing, regardless of general eligibility for aid. Other general student eligibility requirements for a student to receive federal financial aid are listed at [www.ed.gov](http://www.ed.gov) (<http://www.ed.gov>).

A student not meeting the minimum standards of satisfactory academic progress for purposes of federal financial aid eligibility when evaluation is done at the end of each term (fall, spring, summer), is placed in financial aid warning status for the following term of enrollment. The financial aid warning status lasts for one term of enrollment, during which the student may continue to receive federal student aid funds. A student still not meeting the minimum standards after a term in financial aid warning status loses eligibility for the next term of enrollment, unless the student successfully appeals and is placed on financial aid probation, which may include the approval of an academic plan.

### Institutional Financial Aid

Any enrolled student who is meeting the satisfactory academic progress standards for federal financial aid eligibility also meets the satisfactory academic progress standard for institutionally-controlled need-based



aid. Students pursuing a first bachelor's degree in the undergraduate schools of the University are considered for institutionally-controlled aid programs. Evaluation of students' satisfactory academic progress for purposes of institutionally-controlled financial aid eligibility is made at the end of each term (fall, spring, summer), to determine eligibility for the following term. Evaluation is also made upon students' readmittance and/or return to active status following a period of continuous enrollment status. Certain institutional aid programs (including some merit-based and talent-based scholarships) have higher academic and/or other requirements that are communicated to recipients. If a student demonstrates financial need as determined by Wake Forest, as the result of losing eligibility for a merit/talent-based scholarship, (s)he then receives need-based aid programs under the same policies as other students not receiving merit/talent-based scholarships. The receipt of athletic aid is governed by NCAA rules. Institutional aid generally is not available for summer sessions.

Wake Forest University makes these minimum standards applicable to all institutionally-controlled aid programs except for certain institutional aid programs (including some merit-based and talent-based scholarships) that have higher academic and/or other requirements that are communicated to recipients; and applicable to all coursework taken by a student that is applicable to a bachelor's degree (regardless of the timing of the student's declaration of a major or change in major), all coursework accepted or credited toward a bachelor's degree (transfer hours, Advanced Placement hours, International Baccalaureate hours, College Level Examination Program hours, etc.), and all other coursework (repeated courses, graduate-level coursework, etc.) taken at Wake Forest while enrolled as an undergraduate student. To maintain academic eligibility for institutionally-controlled aid, a student must:

Complete the requirements for a bachelor's degree within a maximum number of hours attempted of 180 (including repeated courses, transfer hours, Advanced Placement hours, International Baccalaureate hours, College Level Examination Program hours, etc.). During a semester in which a student drops courses or withdraws or begins continuous enrollment status, the maximum number of hours attempted includes those hours attempted as of the earlier of

1. the withdrawal or continuous enrollment status effective date, or
2. the last day to drop a second part-of-term course without penalty (as published in the academic calendar).

Pass at least two-thirds of those hours attempted in the undergraduate schools of the University (including repeated courses, transfer hours, pass/fail courses, and hours attempted as a visiting or unclassified student). Incompletes count as hours attempted, unless from a non-credit course.

Audited classes do not count as hours attempted. During a semester in which a student drops courses or withdraws, hours attempted includes those hours attempted as of the earlier of

1. the withdrawal or continuous enrollment status effective date, or
2. the last day to drop a second part-of-term course without penalty (as published in the academic calendar).

Maintain the following minimum cumulative Wake Forest University grade point average on all hours attempted in the undergraduate schools of the University (including courses with a grade of incomplete):

For Hours Attempted of	A Minimum Cumulative GPA of
fewer than 30	1.60
at least 30, fewer than 60	1.70
at least 60, fewer than 90	1.80
90 and above	1.90

The Wake Forest University grade point average calculation excludes pass/fail courses. In cases where a student repeats a course for which he or she received a grade of C- or lower, the cumulative grade point average is calculated by considering the course as attempted only once, with the grade points assigned reflecting the highest grade received. However, this provision does not apply to any course for which the student has received the grade of an irreplaceable F. During a semester in which a student drops courses or withdraws, all hours attempted in the undergraduate schools of the University includes those hours attempted as of the earlier of

1. the withdrawal or continuous enrollment effective date, or
2. the last day to drop a second part-of-term course without penalty (as published in the academic calendar).

A student not meeting the minimum standards of satisfactory academic progress for purposes of institutional financial aid eligibility when evaluation is done at the end of each term (fall, spring, summer), is placed in financial aid warning status for the following term of enrollment. The financial aid warning status lasts for one term of enrollment, during which the student may continue to receive institutionally-controlled aid funds. A student still not meeting the minimum standards after a term in financial aid warning status loses eligibility for the next term of enrollment, unless the student successfully appeals and is placed on financial aid probation, which may include the approval of an academic plan.

## Appeal Procedure

Denial of aid under the policies for institutional and federal aid may be appealed in writing to the Committee on Scholarships and Student Aid and mailed to:

P.O. Box 7246  
Winston-Salem, NC 27109-7246

or delivered to the Office of Student Financial Aid, Reynolda Hall Room 4. A student's request must include information regarding why the student failed to maintain satisfactory academic progress, and what factors have changed that would allow him/her to demonstrate satisfactory academic progress at the next evaluation.

The Committee may grant a probationary reinstatement to any student, upon demonstration of extenuating circumstances documented in writing to the satisfaction of the Committee. Examples of extenuating circumstances and appropriate documentation include, but are not necessarily limited to the following: injury or illness of the student or immediate family members—statement from physician that injury or illness interfered with opportunity for satisfactory progress; death in family—statement of student or minister; temporary or permanent disability—statement from physician. During a probationary period, students may continue to receive aid. Reinstatement after probation can be made only after the student has received credit for the appropriate percentage of work attempted with the required cumulative grade point average.

## Scholarships

Scholarships and loans are awarded from funds provided by generous gifts to the University from individuals and organizations. A listing and descriptions of permanent scholarship and loan programs is provided at <http://financialaid.wfu.edu/merit/university-scholarships-and-loans/>.

## Other Aid Programs

*Student employment* is possible for part-time, on-campus and off-campus work, for a recommended maximum of 20 hours per week for full-time students. Summer employment may also be available. Interested students should contact the student financial aid office. Federal funding assists Wake Forest in its job location and development activities for students.

Veterans' education benefits are administered by the Department of Veterans Affairs in the Federal Building at 251 North Main Street in Winston-Salem. Records of progress are kept by Wake Forest University on veteran and non-veteran students alike. Progress records are furnished to the students, veterans, and non-veterans alike, at the end of each scheduled school term. Additional information is provided at <http://financialaid.wfu.edu/helpful-resources/veterans/>.

## Outside Assistance

Wake Forest encourages students to apply for outside assistance for which they may be eligible. Students must advise the financial aid office if they receive any assistance from outside organizations, including any local, state, and national scholarship and loan programs. Outside scholarships count as student resources, becoming part of the package of financial aid. When need calculated under the federal methodology (FM need) is greater than the offered aid package, outside scholarships are allowed to meet that difference. Once the offered aid package equals FM need, any portion of outside scholarship exceeding FM need results in a reduction of need-based student loans and work-study funds. In no case may aid exceed the estimated cost of attendance.

Outside scholarship donors should include on the check the recipient's name and the term(s) for which the scholarship is intended. Checks should be payable to Wake Forest University (or co-payable to Wake Forest University and the student) and sent to:

Office of Student Financial Aid  
P.O. Box 7246  
Winston-Salem, NC 27109-7246

Checks delivered by donors to the student should be forwarded to the aid office. By submitting, or allowing donors to submit, checks to Wake Forest, a student gives permission for Wake Forest to write the Wake Forest University student identification number on the face of the check. If funds are not received by Wake Forest in a timely manner from an outside scholarship donor, the student becomes responsible for payment of charges previously deferred by the anticipated receipt of funds from the donor.

## SPECIAL PROGRAMS

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Students in the College are encouraged to apply to special programs, both on and off campus, which complement their abilities and interests. These include the programs described below and the special degrees, minors, and concentrations described in the courses of instruction.

### Honors Study

For highly qualified students, a series of interdisciplinary honors courses is described under the Courses of Instruction section of this bulletin.

For students especially talented in individual areas of study, most departments in the College offer special studies leading to graduation with honors in a particular discipline. The minimum requirement is a grade point average of 3.0 in all work and 3.3 (or higher in some areas) in the major. Other course, seminar, and research requirements are determined by each department.

### Open Curriculum

For students with high motivation and strong academic preparation, the Open Curriculum provides the opportunity to follow a course of study planned within the framework of a liberal arts education, but not necessarily fulfilling all core requirements for the degree. The Committee on Interdisciplinary Majors, as the administrative body for the Open Curriculum Program, selects a limited number of students based on their previous record of achievement, high aspirations, ability in one or more areas of study, strength of self-expression, and other special talents. The course of study for the core requirements is designed by the student and his or her Open Curriculum adviser.

### Study at Salem College

For full-time students in the fall and spring semesters, Wake Forest and Salem College share a program of exchange credits for courses taken at one institution because they are not offered in the curriculum of the other. An application for the Salem/Wake Forest Exchange Credit program must be approved by the academic adviser and the University Registrar or the dean of the School of Business. Please visit the University Registrar to begin the application process. Except in courses of private instruction, there is no additional cost to the student. Grades and grade points earned at Salem College under the Exchange Credit program are evaluated as if they were earned at Wake Forest.

Courses that are in the Wake Forest curriculum generally cannot be taken at Salem through this program. In very unusual circumstances, a student may wish to seek assistance in appealing to the Committee on Academic Affairs.

### Center for Global Programs and Studies

The Center for Global Programs & Studies (GPS) advances a global campus community and cultivates global mindsets through collaborative initiatives, programs, and services for the University. Program areas include: study abroad/away, international student and scholar services, cross-cultural engagement course series, campus programs with a global learning focus, and international studies and global trade and commerce minors. A complete list of services offered by GPS can be found at <http://global.wfu.edu>.

### Study Abroad

Students interested in studying abroad (or studying away on the Wake Washington and Wake West semester programs) should visit GPS for assistance and program information. All students planning to study abroad on a Wake Forest or an affiliate program (approved non-Wake Forest program) are required first to schedule an appointment with a study abroad advisor. All students must submit an online study abroad application. For more information visit <http://studyabroad.wfu.edu>.

### Eligibility for Study Abroad

In order to be eligible for study abroad on a Wake Forest or affiliate program (approved non-Wake Forest program) students must:

1. Have completed two semesters of coursework before beginning the program unless approved by the appropriate dean in the College and the Center for Global Programs and Studies
2. Have a cumulative grade point average of 2.0 or above
3. Not be on probation or suspension from Wake Forest
4. Obtain approval of the program from the Center for Global Programs and Studies before applying to any affiliate program (consult a study abroad advisor for the program approval process)
5. Fulfill all required steps of the study abroad process as outlined by the Center for Global Programs and Studies
6. Attend a mandatory pre-departure orientation

Students who do not meet the above criteria will not receive credit for any coursework taken outside the U.S. Students who study abroad on affiliate programs must follow all policies on transfer credit as stated in this *Undergraduate Bulletin*.

Note that any student possessing less than a 2.0 cumulative grade point average is not eligible to receive transfer credit from an affiliate study abroad program (See the transfer credit section of this *Undergraduate Bulletin*.)

# GLOBAL PROGRAMS

The Center for Global Programs and Studies (GPS) advances a global campus community and cultivates global mindsets through collaborative initiatives, programs, and services for the entire University. GPS includes four units: International Student and Scholar Services, Global Campus Programs, Global Research and Assessment, and Global Abroad and Away. A complete list of programs and services offered by GPS is available here (<http://global.wfu.edu>).

## Contact Information:

The Center for Global Programs and Studies  
Reynolda Hall, Room 116  
Phone: 336-758-5938

## International Students and Scholars Services (ISSS)

International Student and Scholar Services (<https://global.wfu.edu/iss/>) provides visa processing and immigration support to international students, faculty, and staff during their time at Wake Forest and beyond. Through maintaining compliance with immigration regulations and accurate reporting to several federal government agencies, the ISSS team ensures Wake Forest can continue to host international students, faculty, and staff on campus. ISSS organizes many cultural activities and immigration information sessions throughout the year to educate campus partners, as well as provides programming to encourage engagement with the larger community. The advisors in ISSS also advocate for services that will enhance the experience of our international population on campus.

## Global Campus Programs

The Global Campus Programs (GCP) team is responsible for the planning, design, and implementation of programs focused on building a global campus community. The GCP team is both proactive and responsive to developing collaborative programming based on the needs of students, faculty, staff, and campus partners with the goal of enhancing global mindsets. Hallmark programs include: Global Village Living and Learning Community (<https://global.wfu.edu/global-campus/global-villages/>), Global Laureates Academy (<https://global.wfu.edu/global-laureates-academy/>), Cross-Cultural Engagement Program (<https://global.wfu.edu/global-abroad/cross-cultural-engagement/>), Worldwide Wake pre-orientation program (<https://global.wfu.edu/global-campus/www/>), and the WISE Conference (<https://global.wfu.edu/global-campus/wise-conference/>) for International Educators.

**Global Village:** The Global Village Living & Learning Community consists of globally-minded students from a broad spectrum of majors who reside together for a full academic year and commit to collaboratively explore a global theme through curricular and co-curricular activities. The Global Village is an intentional residential community focused on cultivating social, cultural, and intellectual development of participants and is designed to foster engagement with the broader Wake Forest community.

**Global Laureates Academy:** The Global Laureates Academy provides a focused opportunity to develop one's global competencies through participation in a series of globally themed workshops and seminars that result in a collaborative capstone project designed to impact the Wake Forest and/or Winston-Salem community.

**Cross-Cultural Engagement Program:** The CCE Program is a series of courses available to students before, during, and after their study abroad term. CCE courses facilitate the development of skills necessary to study, live, and work effectively in cultures other than your own.

**Worldwide Wake:** Worldwide Wake is a pre-orientation program that enables globally-minded first-year students to enrich their cross-cultural awareness through a series of small group activities, interesting discussions, daily Global Challenges, and fun social events.

**WISE Conference:** The Workshop on Intercultural Skills Enhancement (WISE) is the pioneering conference focused on providing knowledge and skills to educators to help study abroad and international students develop intercultural competence and global awareness. Initiated in 2009 by a small group of WFU faculty intent on better preparing students for international experiences, WISE has grown into a global network of professionals and practitioners seeking to expand global understanding in our diverse society. WISE Conference is held annually (early February) in downtown Winston-Salem, NC.

## Global Research and Assessment

Global Research and Assessment (<https://global.wfu.edu/global-strategies/qep/assessment/>) oversees program evaluation for the four initiatives of the Wake Forest University Quality Enhancement Plan: Global AWAKEnings, Global Connections, Global Laureates Academy, and Global Village Living & Learning Community. Global Research houses the Academic and Cultural Transition (ACT) Research Team (<https://global.wfu.edu/global-outreach/act/>). Comprised of faculty across three institutions as well as WFU undergraduate international students, the ACT Research Team advances understanding and practice on international students' academic, cultural, social, and emotional adjustment to U.S. universities. To enhance faculty global competency, Global Research provides cross-cultural teaching opportunities in China (<https://global.wfu.edu/global-outreach/wfuprogram-scls/>).

## Global Abroad and Away

Global Abroad and Away (<http://studyabroad.wfu.edu/>) manages the extensive offerings of Wake Forest and Affiliate study away programs and provides advising to all students pursuing these academic opportunities. Other programs and services include:

- Study abroad/away scholarships (<http://studyabroad.wfu.edu/funding/>)
- Passport Assistance
- Community-Based Global Learning (CBGL) programs (<https://global.wfu.edu/staff/international-service/>)
- Cross-Cultural Engagement (CCE) program (<https://global.wfu.edu/global-abroad/cross-cultural-engagement/>)
- International Studies Minor coordination and support (<https://global.wfu.edu/global-campus/international-minors/>)
- Global Trade and Commerce Studies Minor coordination and support (<https://global.wfu.edu/global-campus/international-minors/global-trade-commerce-studies/>)

## Study Abroad in Affiliate Programs

**Students wishing to study abroad on an affiliate program must visit the Center for Global Programs and Studies for assistance and procedures.** Affiliate programs are approved study abroad programs offered through program providers or other universities. GPS maintains an online database of approved Affiliate programs here (<http://>

studyabroad.wfu.edu). In addition, GPS has a collection of printed materials of approved programs. All students planning to study abroad are required to meet with a study abroad advisor. GPS staff advises students regarding their program options. Students will not receive credit for participation on any unapproved study abroad program.

**Course Approval Process.** Once a student is accepted to a study abroad program, he or she must start the course approval process by scheduling an appointment with a study abroad advisor. In no case may a student undertake study abroad elsewhere without completing this process in advance to the satisfaction of GPS, the Registrar's Office, and the academic departments which oversee course credit approval. Students may not register for fewer than 12 hours or more than 17 hours on a semester study abroad program without the permission of a dean. Department chairs approve specific courses and the number of credit hours earned for those courses.

Grades for approved courses on affiliate study abroad programs will appear on the Wake Forest University transcript, but will NOT be calculated into the Wake Forest grade point average (see section on transfer credit). Students must follow the drop/add policies of the host institution. If the program does not have any relevant policies, then the Wake Forest policy is applied. If a student withdraws from a study abroad program, he or she must notify GPS, the Registrar's Office, and Student Financial Services; the rules for withdrawal, as stated in this *Undergraduate Bulletin*, also apply. For more information, consult GPS.

Students may request to have scholarship and financial aid applied toward Affiliate programs. Scholarships for study abroad are also available. Additional information is available in GPS and the Office of Student Financial Aid.

## Study Abroad/Away in Wake Forest Programs

### Austria (Vienna)

Students have the opportunity to study and live at the Flow House in the 19th District of Vienna (northwest section of the city). Each semester or summer session, a resident professor leads a group of up to 16 students and offers two courses in his or her respective disciplines. Resident professors are chosen from a wide variety of academic departments. In addition, Viennese professors offer courses in the study of German language or literature, Austrian art and architecture, business, music, or history of Austria and Central Europe. Group excursions to Central Europe enhance the learning experience as well as numerous integrative experiences within the city itself. Prior study of German language is recommended but not required. Further information may be obtained from the program director, professor Rebecca Thomas, in the Department of German & Russian.

### Chile (Santiago)

Students have the opportunity to study and live in South America on this "Across South America" program, which is offered during the spring semester. Students begin the semester in Santiago with a four week session on Chilean culture and language. Afterwards, they embark on academic excursions to Argentina, Ecuador, Peru, and Uruguay before returning to Santiago. Following the four weeks of academic travel, students complete the remainder of the semester on one of three tracks - Primary Track, Internship Track, or Honors Track. A resident professor leads the group of students and offers two courses in his or her respective discipline. Resident professors are chosen from a variety

of academic departments. While in Santiago, students experience the Chilean culture through homestays. This program offers courses in English and Spanish. Prior study of Spanish language is required for the Internship and Honors tracks. Further information may be obtained from the program director, professor Peter Siavelis, in the Department of Politics and International Affairs.

### England (Cambridge)

Wake Forest offers a semester program in Cambridge, England. The Cambridge INSTEP program, as it is called, emphasizes a close student-to-faculty teaching relationship with most classes taught in the seminar format with five to 12 students. In addition, intensive courses are offered for qualified students in the supervision format with one to four students (who meet course pre-requisites). Courses are taught by Cambridge University professors and provide a contemporary perspective on economics, business, politics, and international relations. Further information may be obtained from the Center for Global Programs and Studies.

### England (London)

Students have the opportunity to study and live at the Worrell House in the Hampstead District of London. Each semester or summer session, a resident professor leads a group of up to 14 students and offers two courses in his or her respective discipline. Resident professors are chosen from a wide variety of academic departments. In addition, British professors offer courses in the study of art, history, and theatre of London and Great Britain. Group excursions to museums and theatre performances enhance the learning experience as well as numerous integrative experiences within the city itself. Further information may be obtained from the program director, professor Mary Dalton, in the Department of Communication.

### England (London)

The London INSTEP semester program offers a cross-disciplinary approach in which central themes are examined in the areas of business, political science, international relations, and communication/media. During the spring semester of each year, participants also have the option to complete an internship for academic credit. The program emphasizes a close student-to-faculty teaching relationship common to the English system of higher education. Courses are taught by select faculty members from local universities. Further information may be obtained from the Center for Global Programs and Studies.

### England (London)

In partnership with Queen Mary University of London, one of the United Kingdom's leading research-focused higher education institutions, Wake Forest's London University Studies & Internships program provides students the exceptional opportunity to experience London in both academic and professional capacities. From Queen Mary's fully integrated Mile End campus – part of London's historic East End district – students can pursue coursework from dozens of academic departments and gain real world experience through carefully selected internship placements. Further information may be obtained from the Center for Global Programs and Studies.

### France (Dijon)

Students have the opportunity to study and live in France. Each fall semester a resident professor leads a group of students and offers a course in French. In addition, students take courses at the University of Burgundy. Students experience French culture through homestays and excursions to locations throughout France such as

Paris, Provence, and Strasbourg. A major in French is not required, but FRH 212/FRH 213/FRH 214 or its equivalent or any French course above the intermediate level is required. Further information may be obtained from the program director, professor Stephen Murphy, in the Department of Romance Languages.

### **India (Delhi)**

This summer abroad program focuses on the ways in which Indian cultural practices have developed into a hybridized format with elements that sustain some of the traditional components of Indian culture that have been synthesized with global cultural trends. This course examines the issues of sustainability of the cultural ecology of a specific ancient cultural system. The program is based in Delhi; however, there are excursions, including a trip to Ladakh in the Himalayan region of India, and to the "Golden Triangle" of India including the Taj Mahal. Further information may be obtained from professor Ananda Mitra in the Department of Communication.

### **Italy (Venice)**

Students have the opportunity to study and live at Casa Artom situated along the Grand Canal in Venice. Each semester or summer session, a resident professor leads a group of up to 20 students and offers two courses in his or her respective discipline. Resident professors are chosen from a wide variety of academic departments. In addition, Venetian professors offer courses in the study of Italian language or literature, Italian art and architecture, history, and economics to help students integrate into the local culture. Group excursions throughout Venice and in surrounding cities enhance the learning experience as well as numerous integrative experiences within the city itself. Prior study of Italian language is not required, but may be determined by the resident professor. Further information may be obtained from the program director, professor Peter Kairoff, in the Department of Music.

### **Japan (Hirakata)**

For students wishing to study in Japan, Wake Forest offers a fall and/or spring semester at Kansai Gaidai University. Located in Hirakata, Japan, Kansai Gaidai is situated near three of Japan's most interesting cities—Kyoto, the capital of Japan for 1,200 years; Osaka, the largest commercial city; and Nara, the ancient capital of Japan during the 6th century. Courses in a variety of disciplines including economics, political science, religious studies, sociology, history, art, and communication are offered in English. Japanese language is offered at all levels. No prior knowledge of Japanese is required. Further information may be obtained from the Center for Global Programs and Studies.

### **Peru (Cuzco)**

This intensive, field-based program provides hands-on experiences in the wide range of environments Peru has to offer. Students take BIO 349 and/or JOU 370. Course work consists of daily lectures, readings, hands-on field activities, a full range of journalistic interviewing, reporting and writing skills and techniques, and a final project. At all sites, students collect, analyze, and identify a wide variety of plant species, and evaluate the possible stories and blog posts that emerge from interviews and observations. Journalistic reporting is the critical means by which decision makers and the public get information about environmental issues. Further information may be obtained from professor Miles Silman in the Department of Biology and/or professor of journalism Justin Catanoso in the Department of English.

### **Spain (Barcelona)**

This semester program is specifically designed for business, economics, entrepreneurship, and global trade and commerce students, but it also appeals to those students interested in political science and international studies in general. Based at the Autonomous University of Barcelona's Sant Pau Campus (UAB), the program places students the heart of this city of 1.6 million inhabitants. A Wake Forest on-site administrator oversees program administration and Wake Forest's academic center. Courses are primarily taught in English, with no prior knowledge of Spanish required. Students are required to enroll in one course taught in Spanish or Catalan. Housing options include apartments, student residence halls or homestays. Further information may be obtained from the Center for Global Programs and Studies.

### **Spain (Salamanca)**

Students have the opportunity to study and live in Spain. Each semester a resident professor leads a group of students and offers a course in Spanish. In addition, students take courses at the University of Salamanca. Students experience the Spanish culture through homestays, or dorms at the University of Salamanca and excursions to locations throughout Spain such as Granada, Madrid, and Seville. Internship opportunities are available. A major in Spanish is not required, but one course beyond SPA 212 is required. Further information may be obtained from the program director, professor Kathryn Mayers, in the Department of Spanish and Italian.

### **Spain (Salamanca)—Internships**

Students interested in experiencing the Spanish work environment are encouraged to apply for the Salamanca Summer Internship program. Internships are available during both summer sessions in a wide range of fields (medical, business, teaching, translation/interpretation) and may carry 1.5 or 3 hour credits. Students enroll in an internship course and have the option of taking a conversation course or literature course while in Salamanca. Students live with Spanish families or in dorms at the University of Salamanca. Further information may be obtained from professor Kathryn Mayers in the Department of Spanish and Italian.

### **Spain (Salamanca)—Neuroscience**

Each spring semester, the Wake Forest Salamanca Neuroscience Program offers STEM students the opportunity to study science at one of the leading neuroscience institutes in Europe. Students on the program will be enrolled at the Neuroscience Institute at the University of Salamanca (INCyL), a site of cutting-edge research in areas ranging from Parkinson's Disease to regenerative medicine to cell therapy. The University itself has been designated an International University of Excellence in the Teaching of the Biological Sciences and of Spanish as a Second Language. Prerequisites to the program are BIO 150, BIO 214, CHM 223, or CHM 280, or permission of instructor, and one semester of college-level Spanish. All science courses are taught in English. Further information may be obtained from professor Kathryn Mayers in the Department of Spanish and Italian.

### **United States (San Francisco, C.A.)**

Each spring, the Wake West program allows students to learn, study, and engage in internships in the innovative and dynamic culture of the San Francisco Bay Area (SFBA). Throughout the semester, students take part in a four-day-per-week internship and participate in program-provided excursions to local businesses and start-ups. The program also organizes networking and professional development events with WFU SFBA alumni, parent mentors, and guest speakers from local universities. Students earn 9 credits for the coursework taught and supervised by

the program director and 3 credits for a course taught by local faculty. Further information may be obtained from the program director, professor Rebecca Gill in the Department of Communication and the Center for Entrepreneurship.

### **United States (Washington, D.C.)**

Each fall and spring, the Wake Washington program allows students to study and intern in the nation's capital. The WFU Resident Professor teaches two courses in his/her field, with a focus on taking advantage of Washington D.C.'s resources to enhance the coursework. In addition, students engage in a four-day-per-week internship. Students are responsible for writing a research paper on a topic related to their internship and for participating in weekly meetings which include opportunities to hear prominent speakers. Alumni and parent mentors are available to students throughout the semester. Students earn 6 credits for the coursework taught by the resident professor and 6 credits for the internship experience and related obligations. Further information may be obtained from the program director, professor Katy Harriger in the Department of Politics and International Affairs.

### **Additional Summer Programs**

Each summer, the University offers a variety of summer study abroad courses led by Wake Forest faculty. There are many types of summer programs including language immersion, field research, specialized academic topics and internships. Wake Forest summer programs are offered throughout Europe, Africa, Asia, and Latin America. Detailed information on summer programs is available on the Center for Global Programs and Studies website (<http://studyabroad.wfu.edu>). Further information may be obtained from the Center for Global Programs and Studies.

# REQUIREMENTS FOR DEGREES

## Degrees Offered

The Wake Forest College of Arts and Sciences offers undergraduate programs leading to the bachelor of arts and bachelor of science degrees.

The bachelor of arts degree is conferred with a major in anthropology, art history, biology, chemistry, Chinese language and culture, classical studies, communication, computer science, economics, English, French studies, German, German studies, Greek, history, Japanese studies, Latin, mathematics, mathematical statistics, music performance, music in liberal arts, philosophy, physics, politics and international affairs, psychology, religious studies, Russian, sociology, Spanish, studio art, theatre, or women's, gender, and sexuality studies.

The bachelor of science degree is conferred with a major in applied mathematics, biology, biochemistry and molecular biology, biophysics, chemistry, computer science, engineering, health and exercise science, mathematical economics, mathematics, mathematical statistics, or physics.

The bachelor of arts degree is available with a major in elementary education or social studies education. The bachelor of science degree may be conferred in combined curricula in engineering and medical technology.

The School of Business offers undergraduate programs leading to the bachelor of science degree with a major in accountancy, business and enterprise management, finance, or mathematical business.

A student may receive only one bachelor's degree (either the bachelor of arts or the bachelor of science) from Wake Forest.

## General Requirements

The basic and divisional course requirements leave students in the College considerable flexibility in planning their courses of study. Students who entered under the bulletins of previous years may make use of new alternative basic and divisional courses announced in this bulletin while still following their original contract for the required totals thereof. Except for HES 100, only courses of 3 or more semester hours count towards satisfying basic and divisional requirements.

All students must complete:

1. the core requirements (unless accepted for the Open Curriculum),
2. a course of study approved by the department or departments of the major, and
3. elective courses, for a total of 120 hours.

In general, no more than 12 hours toward graduation may be earned from among all of the following courses: MUS 111-MUS 121 and MUS 128-MUS 129 (ensemble courses); DCE 128; and elective 100-level courses in health and exercise science. However, majors in music in liberal arts and music performance may count up to 16 hours in these courses toward graduation. A cross-listed course may be taken one time for hours toward graduation, unless otherwise specified by the course description, and no more than three hours in LIB courses may count toward graduation.

All students must earn a minimum cumulative 2.0 grade point average in Wake Forest College and the School of Business. Once enrolled at Wake Forest, a student may subsequently count, at most, 30 hours of credit from sources other than Wake Forest programs toward the graduation requirement of 120 hours. Students who transfer into Wake Forest must subsequently earn at least 60 hours in Wake Forest programs. Except for combined degree curricula, the work of the senior year must consist of courses in Wake Forest programs. Any exceptions must be approved by the Committee on Academic Affairs. No more than 15 credit hours earned through fully online courses may be applied towards graduation; of these no more than 6 credit hours may be transferred from another institution.

Transfer credits will not be used in calculating a student's GPA. This includes affiliate study abroad programs (approved non-Wake Forest programs). However, work from other institutions accepted in transfer, along with the grade(s) earned, will be recorded on the transcript. Graduation distinctions will be based solely on the Wake Forest GPA.

A student graduates under the requirements of the bulletin of the year in which he or she enters. However, when a student declares a major or a minor, the requirements for the major or minor that are in effect at the time of declaration will apply. Such requirements might not be congruent with those stated in a given bulletin. Newly admitted majors to the School of Business, will be assigned a catalog year that will reflect their first full academic year as a major in the School. If coursework is not completed within 6 years of entrance, the student must fulfill the requirements for the class in which he or she graduates.

The University issues degrees in August, December, and May. All requirements must be completed and certified before a student will be issued a degree and/or can participate in the commencement exercises. However, students may petition for permission to participate in the commencement exercises if all three of the following conditions are met:

1. The student will have completed at least 112 hours by the end of the spring semester preceding commencement.
2. The student will have a minimum 2.0 cumulative GPA and a minimum 2.0 GPA in the major(s).
3. The student has no outstanding judicial sanctions (unpaid fines, owed community service hours, etc.).

Commencement is a celebration of graduation, but not required for graduation. Participation in commencement is at the discretion of the appropriate Dean. The University reserves the right to refuse participation in commencement in certain circumstances (e.g., unfulfilled sanctions for judicial or honor violations).

No further entries or alterations may be made toward the undergraduate degree once a student has been graduated.

To become a degree candidate, a student must submit an online application for graduation that will prompt a review of the student's academic record to assure that all degree requirements have been met. The application for graduation is available online in WIN. Students who are not enrolled in the term prior to their desired graduation date must contact the Office of the University Registrar before the application deadline. The application deadlines for each graduation date are as follows:

- December graduation: September 1
- May graduation: October 1
- August graduation: May 30



The University conducts one Commencement Ceremony each year in May. Students who have earned their degree the previous August or December are invited to participate in the May ceremony following their graduation.

## Core Requirements (Basic and Divisional combined)

The core requirements are intended to introduce the student to various fields of knowledge and to lay the foundation for concentration in a major subject and related fields during the junior and senior years. For these reasons, as many of the requirements as feasible should be taken in the first two years.

### Basic Requirements

All students must complete five required basic courses (unless exempted through procedures established by the departments concerned):

- FYS 100 (first-year seminar) - to be taken during first year
- WRI 111 (writing seminar) - to be taken during first year
- **One 200-level foreign language course**
- **Health and Exercise Science 100**

### Foreign Language Placements

All students new to Wake Forest who have studied a foreign language in high school must complete a foreign language placement test in the language(s) studied. Students will not receive credit for a class at a lower level than the level of their placement on the placement exam, unless they:

1. *register for the class in which they placed;*
2. *attend a few class meetings;*
3. *consult with their professor; and*
4. *successfully appeal their placement to the language placement appeals officers of the department and be reassigned to a lower level course.*

Students may satisfy the requirement with a foreign language they have not previously studied, and may start at the beginning level (111 or 101, depending on the language) offered at Wake Forest.

Students whose primary language (the language of instruction in the student's prior schooling) is other than English are exempt from the basic requirement in foreign language.

Students whose schooling has been in English but who are fluent in a language not taught at Wake Forest must present the equivalent of a 200-level college course or proficiency in reading and writing in the second language to be exempt from the requirement. Such students should contact the Office of the Dean of the College. Each case will be referred to a person qualified to make the appropriate determination. If the second language is taught at Wake Forest, the relevant department decides whether the student may complete the requirement in that language or may be regarded as having fulfilled the requirement already. Elective courses in the language or literature of a student's heritage or country of origin are at the discretion of the department offering the course.

### Divisional Requirements

All students must complete courses in each of the five divisions of the undergraduate curriculum (unless exempted through procedures established by the departments concerned or by participation in the Open

Curriculum). Together with the basic requirements these courses form the core of Wake Forest's undergraduate liberal arts education.

Division	Departments	Number of Courses Required
I: Humanities	History; Philosophy; Study of Religions; Women's, Gender, and Sexuality Studies	2
II: Literatures	<b>Literatures Written in English</b> (English Department) <b>In English Translation</b> (Classical Languages, East Asian Languages and Cultures, French Studies, German and Russian, Spanish and Italian, and the Program in Humanities)	1
III: Fine Arts	Art, Music, Theatre and Dance	1
IV: Social Sciences	Anthropology, Communication, Economics, Education, Politics and International Affairs, Psychology, Sociology	2
V: Math and Natural Sciences	Biology, Chemistry, Computer Science, Mathematics and Statistics, Physics	2

Students are not allowed to exempt divisional core requirements through the Advanced Placement Examination, the College Level Examination Program or the International Baccalaureate Program, although students who complete AP or IB courses and present qualifying exam scores earn credit towards the 120 hours needed for graduation. Departments choose which courses will satisfy divisional requirements. Courses satisfying a divisional requirement are designated (D) after their descriptions in this bulletin. Courses without the (D) designation do not satisfy a divisional requirement.

### Special Restrictions

- In divisions requiring more than one course, students may not choose two courses from within the same department.
- One course cannot satisfy the requirements of two divisions. A cross-listed course satisfies a requirement in one division only.
- Language courses at the 200-level do not fulfill the Division II literature requirement.

### Additional Requirements

To prepare students for the demands of technology and globalization, Wake Forest guides undergraduate course selections with two further requirements:

**Cultural Diversity Requirement.** All students must complete at least one course that educates them regarding cultural diversity. This course may be taken at the basic, divisional, or major/minor level, or as an elective.

Courses qualified to meet this requirement are designated (CD) after their descriptions in this bulletin.

**Quantitative Reasoning Requirement.** All students must complete at least one course that requires quantitative reasoning, either as a qualifying course in Division V, as an elective, or as a major or minor course requirement. All courses meeting the requirement are designated (QR) after their descriptions in this bulletin.

## Requirement in Health and Exercise Science

Students must complete HES 100 before beginning additional health and exercise science elective courses, and in any case, before the end of the second year.

## Majors and Minors

### Declaring a Major

Students may declare a major after completing 40 hours. Most students declare a major in the spring of their sophomore year. Students declare a major through a procedure established between the academic departments and the Office of the University Registrar. Information about this process is distributed prior to the designated declaration period.

If the student is accepted into the major, the department provides an adviser who assists the student in planning a course of study for the junior and senior years. A department that rejects a student as a major must notify the Office of the University Registrar and file a written statement indicating the reason(s) for the rejection with the Dean of the College.

Students who need to delay the declaration due to insufficient earned hours or other circumstances should consult the Office of the University Registrar.

A student wishing to major in accountancy, business and enterprise management, finance, mathematical business, or the master of science in accountancy should apply to the School of Business. (See the School of Business requirements in this Bulletin.)

The undergraduate schools try to provide ample space in the various major fields to accommodate the interests of students. It must be understood, however, that the undergraduate schools cannot guarantee the availability of space in a given major field or a given course, since the preferences of students change and there are limits to both faculty and facilities.

After the initial declaration, a student may not change from one major to another without the written approval of the departments concerned. The student's course of study for the junior and senior years includes the minimum requirements for the departmental major, with other courses selected by the student and approved by the adviser. At least half of the major must be completed at Wake Forest University.

**Please Note.** For credit in the major, courses taken in many programs of study abroad are not automatically equivalent to courses completed at Wake Forest. If a student wishes to take more than half of his or her courses for the major in study abroad programs, he or she must gain prior approval from the chair of the department. Students should check the Undergraduate Bulletin for additional departmental requirements for the

major. Majors are listed alphabetically under Courses of Instruction in this bulletin.

**The following majors are recognized:**

*accountancy • applied mathematics • anthropology • art history • biology • biochemistry and molecular biology • biophysics • business and enterprise management • chemistry • Chinese language and culture • classical languages • classical studies • communication • computer science • economics • education • engineering • English • finance • French studies • German • German studies • Greek • health and exercise science • history • the interdisciplinary major • Japanese language and culture • Latin • mathematical business • mathematical economics • mathematical statistics • mathematics • music in liberal arts • music performance • philosophy • physics • politics and international affairs • psychology • religious studies • Russian • sociology • Spanish • studio art • theatre • women's, gender, and sexuality studies*

### Maximum Number of Courses in a Department

Within the College, a maximum of 50 hours in a department or major is allowed to count towards the 120 hours required for graduation. Additional hours within a department or major may be taken, but will not count towards the total 120 hours required for graduation. All courses taken within a major or minor department count toward the major or minor GPA. For a student majoring in a department with two or more majors, 6 additional hours in the department but outside the student's major are also allowed.

These stipulations exclude required related courses from other departments. For students majoring in English, WRI 111 is excluded. For students majoring in a foreign language, elementary courses in that language are also excluded. These limits may be exceeded in unusual circumstances only by action of the Committee on Academic Affairs.

### Options for Meeting Major Requirements

To satisfy graduation requirements, a student must select one, and only one, of the following options, which will receive official recognition on the student's permanent record:

1. A single major
2. A single major and a minor
3. A single major and a double minor
4. A single major and a triple minor
5. A double major
6. A double major and a minor

In order to qualify for options four or six, students must offer a minimum of 135 hours for graduation.

*In addition to these options, a student may complete the requirements of one or more foreign area studies programs and/or any of the Romance languages certificates.*

### Double Majors

A student may major in two departments in the College with the written permission of the chair of each of the departments and on condition that the student meets all requirements for the major in both departments. A student may not use the same course to meet requirements in both of the majors. The student must designate one of the two fields as the primary

major, which appears first on the student's record and determines the degree to be awarded. Only one undergraduate degree will be awarded, even if the student completes two majors.

## Minors

A minor is not required. Students may declare a minor only after declaring at least one major. According to the guidelines listed under Options for Meeting Major Requirements, students choosing either a single or a double major may also choose one or more minors from among the following or from the listing of interdisciplinary minors:

*anthropology • Arabic • art history • biology • chemistry • Chinese language and culture • classical studies • communication • computer science • creative writing • dance • economics • English • French studies • German • German studies • Greek • health and human services • history • Italian language and culture • Japanese language and culture • journalism • Latin • mathematics • music • philosophy • physics • politics and international affairs • psychology • religious studies • Russian • schools, education, and society • secondary education • sociology • Spanish • statistics • studio art • theatre*

For details of the various minors, see the appropriate departmental headings in the section of this bulletin that lists course offerings.

## Interdisciplinary Major

Highly qualified students may design an interdisciplinary major, focused on a topic not available as a regular major. The interdisciplinary major consists of courses offered by two or more departments, for a minimum of 42 hours. Students submit a proposal outlining the nature of the major, a list of courses to be included, evidence of a comparable major at another university, if available, and letters from at least two relevant faculty members supporting the proposal, one of whom must agree to be the student's primary adviser. The interdisciplinary major may be declared after the student completes 40 hours, however planning for the major should begin as early as possible. A second major may not be declared. A minor may be declared; however, courses used in the interdisciplinary major may not also meet requirements in the minor. Students are required to complete an independent senior project, approved and reviewed by the adviser and readers from participating departments. Proposals are reviewed by the Open Curriculum Committee. Visit the interdisciplinary major website for more details.

## Interdisciplinary Minors

Interdisciplinary minors are listed alphabetically under Courses of Instruction in this bulletin. The following programs are offered:

*African studies • American ethnic studies • bioethics, humanities and medicine • cultural heritage and preservation studies • East Asian studies • entrepreneurship • environmental science • environmental studies • film and media studies • global trade and commerce studies • health policy and administration • interdisciplinary humanities • international studies • Jewish studies • Latin-American and Latino studies • linguistics • medieval and early modern studies • Middle East and South Asia studies • neuroscience • Russian and East European studies • women's, gender, and sexuality studies • writing*

## Foreign Area Studies

The foreign area studies programs enable students to choose an interdisciplinary concentration in the language and culture of a foreign area. An area studies concentration may include courses in the major and also in the minor field, if a minor is chosen. Foreign area studies programs do not replace majors or minors; they may supplement either

or both. A faculty adviser coordinates each foreign area studies program and advises students. Students who wish to participate in one of these programs must consult with the program coordinator, preferably in their sophomore year.

Italian Studies and Spanish Studies are offered as foreign area studies programs.

## Senior Testing

All seniors may be required to participate in a testing program designed to provide objective evidence of educational development. If the Committee on Academic Affairs decides to conduct such a program, its purpose would be to assist the University in assessing the effectiveness of its programs. The program does not supplant the regular administration of the Graduate Record Examination for students applying for admission to graduate school.

## Degrees in Engineering

The College cooperates with engineering schools in offering a broad course of study in the arts and sciences combined with specialized training in engineering. A program for outstanding students covers five years of study, including three years in the College and approximately two years in one of the schools of engineering accredited by ABET Inc., the engineering organization responsible for accrediting engineering degree programs in the United States. (Depending upon the field chosen, it may be advisable for a student to attend the summer session in the engineering school after transfer.) Admission to Wake Forest does not guarantee admission to the engineering school. Those decisions are based on the student's transcript, performance, and status at the time of application. For most programs, upon successful completion of the five years of study, the student receives the bachelor of science degree in engineering from the University and the bachelor of science degree in a specialized engineering field from the engineering school. For Wake Forest's 3-2 program with Vanderbilt University, the bachelor of science degree from Wake Forest is awarded upon successful completion of the first year of study at Vanderbilt.

The curriculum for the first three years must include all the core requirements and additional courses in science and mathematics which will prepare the student for the study of engineering, such as:

Code	Title	Hours
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
MST 205	Introduction to Linear Algebra and Differential Equations	4
MST 251	Ordinary Differential Equations	3
PHY 113	General Physics I	4
PHY 114	General Physics II	4
PHY 215	Elementary Modern Physics	3
PHY 230	Electronics	3
PHY 262	Mechanics	3
PHY 265	Intermediate Laboratory I	1
PHY 266	Intermediate Laboratory II	1
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1

These electives are chosen in consultation with the chair of the Department of Physics.

## **Five-year Cooperative Degree Program in Latin-American Studies**

Wake Forest and Georgetown universities have instituted a five-year cooperative degree program in Latin-American Studies. Under this program, undergraduate students who minor in Latin-American and Latino Studies at Wake Forest may apply to have a limited number of hours from their undergraduate work count toward a master's degree in Latin-American Studies at Georgetown University in Washington, DC. The BA is awarded by Wake Forest, while the master's degree is awarded by Georgetown. Those whose applications are accepted may complete both their BS or BA and MA degrees in a five-year period. To apply for the combined BS/MA or BA/MA, students should declare an interest in the five-year cooperative degree program during their junior year. Students must then complete the regular Georgetown graduate application process and seek formal acceptance to the MA program during their senior year.

The five-year program is an opportunity for exceptional students to complete degree requirements at an accelerated pace. Interested students should contact the five-year degree program coordinator, Peter Siavelis, professor of politics and international affairs and director of the Latin-American and Latino Studies Program.

## DEPARTMENTS/PROGRAMS

*Plans of study, course descriptions, and the identification of instructors apply to the academic year 2019-2020, unless otherwise noted, and reflect official faculty action through February, 2019.*

The University reserves the right to change programs of study, academic requirements, assignment of lecturers, or the announced calendar. The courses listed in this bulletin are not necessarily taught every year; their availability is a function of both staffing constraints and student demand. While no guarantees about future scheduling can be made, students are encouraged to alert their advisers and department heads to their needs and desires as soon as they can be foreseen. For an exact list of courses offered in each particular semester and summer, students should consult the course schedules issued by the Office of the University Registrar during the preceding term. Course descriptions in this bulletin are brief summaries. Students are encouraged to visit departmental and program websites for more detailed information.

### Abbreviations Found in Course Descriptions

Abbreviation	Description
(#h)	Indicates the number of hours earned for successful completion of the course. Follows the course title.
P-	A course requires one or more prerequisite courses.
C-	A course requires one or more corequisite courses.
P-POI	Permission of the instructor is required for registration.
P-POD	Permission of the department is required for registration.
(CD)	A course satisfies the cultural diversity requirement.
(D)	A course satisfies a divisional requirement.
(QR)	A course satisfies the quantitative reasoning requirement.

Courses 101-199 are primarily for first-year students and sophomores; courses 200-299 are primarily for juniors and seniors; courses 301-399 are for advanced undergraduate students. Graduate courses are described in the bulletin of the Graduate School.

### Academic Community Engagement (ACE)

**Coordinator** Alessandra Von Burg, Associate Professor of Communication

**Academic Community Engagement (ACE) courses** connect academic content to community engagement through collaboration with community partners. ACE courses align with the Carnegie Foundation's classification of community engagement as "the collaboration between institutions of higher education and their larger communities (local, regional/state, national, global) for the mutually beneficial exchange of knowledge and resources in a context of partnership and reciprocity."

ACE courses are approved by the ACE Advisory Council based on criteria that include, but are not limited to: reciprocity with community partners; demonstration of relevant and meaningful community engagement; clear articulation of intended student learning outcomes and community goals; methods of assessment of student outcomes and of community outcomes; and evidence of integration of academic and engagement goals. Faculty teaching ACE courses employ a variety of methods to engage the community. For more details and a complete list of all ACE-designated courses, refer to the Pro Humanitate Institute website at <http://phi.wfu.edu/>.

### African Studies (AFS)

Interdisciplinary Minor

The African Studies minor is designed to give students broad multidisciplinary perspectives on African history, politics, culture, and the economy. The program aims to teach students about the diversity of the African experience and to think critically about the generalized and often incomplete information that are encountered in the media, written texts, and pronouncements of experts, casual observers, residents, and visitors to the continent. The educational objectives of the program include helping the students to acquire critical information that would facilitate their understanding of the multiethnic and multicultural world they live in and become, in the process, global citizens.

### Contact Information

African Studies (<http://college.wfu.edu/politics/africanstudies/>)

### Programs Minor

- African Studies, Minor

### Courses African Studies (AFS)

**AFS 220. Special Topics in African Studies. (1-3 h)**

Subject varies with instructor. May be repeated for credit if topic varies.

**AFS 250. Seminar in African Studies. (3 h)**

Interdisciplinary investigation of important issues related to Africa's past and present.

### Faculty

**Coordinator:**

**Nate Plageman**, Associate Professor, Department of History

**Core Faculty:**

**Lina Benabdallah**, Assistant Professor, Department of Politics and International Affairs

**Regina Cordy**, Assistant Professor, Department of Biology

**Andrew Gurstelle**, Assistant Teaching Professor, Department of Anthropology and Director, Museum of Anthropology

**Simeon Ilesanmi**, Washington M. Wingate Professor, Department for the Study of Religions

**Veronique McNeely**, Associate Professor of the Practice, Department of French Studies

**Kimberly Wortmann**, Assistant Professor, Department for the Study of Religions

## African Studies, Minor

### Requirements

The interdisciplinary minor in African Studies offers students the opportunity to pursue a multidisciplinary study of Africa. The minor requires a minimum of 15 hours. Students who intend to minor in African Studies are encouraged to consult the coordinator of the program in their sophomore year. It is recommended that AFS 250 be taken after completing at least one other course for the minor.

Candidates for the minor are required to take the following:

Code	Title	Hours
HST 105	Africa in World History	3
or REL 107	Introduction to African Religions	
AFS 250	Seminar in African Studies (strongly recommended to be taken in senior year)	3
Select 9 hours of Electives		9

### Electives for African Studies

The program coordinator maintains a complete list of all elective courses that fulfill the minor, as additional elective courses may have been approved since publication of this bulletin. Students may fulfill elective requirements by completing courses related to Africa on a Wake Forest approved study abroad course; they may also seek prior approval from the program coordinator for courses which are not listed here but which have a significant African component. No more than 9 hours within a single discipline may count towards the minor. For course descriptions, see the relevant department's listings in this bulletin.

Code	Title	Hours
AFS 220	Special Topics in African Studies	1-3
ANT 370	Origins to Empires: The Archaeology of Africa and Eurasia	3
ART 104	Topics in World Art (when topic is appropriate)	3
DCE 122	Special Topics in Dance (when topic is African dance)	1-3
ECN 358	Economic Growth and Development	3
ENG 337	Studies in 18th-Century British Literature (when topic is appropriate)	3
ENG 356	Literature of the Caribbean	3
ENG 358	Postcolonial Literature	3
FRH 216	Studies in French and Francophone Literature and Culture (when topic is appropriate)	3
HMN 223	African and Caribbean Literature	3
HST 268	African History to 1870	3
HST 269	African History since 1850	3
HST 271	African American History to 1870	3
HST 272	African American History since 1870	3
HST 336	Gender and Power in African History	3
HST 340	Urban Africa	3
HST 341	Africans in the Atlantic World, 1750-1815	3
HST 378	Race, Memory, and Identity	3
MUS 209	Music of World Cultures (when topic is appropriate)	3

POL 242	Topics in Comparative Politics (when topic is appropriate)	3
POL 252	Topics in International Politics (when topic is appropriate)	3
POL 257	Politics of International Development	3
POL 266	Modern Civil Wars	3
REL 336	Religious Traditions and Human Rights	3
REL 339	Religion, Power, and Society in Modern Africa	3
REL 345	The African-American Religious Experience	3
REL 348	Race, Memory, and Identity	3
REL 393	Topics in Religions of Africa	3
SPA 368	Afro Cuban Cultural Expression	3

## American Ethnic Studies (AES)

Interdisciplinary Minor

The American Ethnic Studies Program at Wake Forest University is a multicultural and multiracial research and teaching unit, dedicated to providing knowledge in the study of race, class, gender and ethnicity. Through the programs' curricula focus on several major ethnic groups including, African American, Asian/Pacific Islanders, Hispanics, and Chicanos, students learn interdisciplinary, ethnic-specific, and comparative concepts, theories, and methods of inquiry, which shape the cultural, literary, social, historical, economic, and political character of selected American ethnic communities.

### Contact Information

American Ethnic Studies (<http://college.wfu.edu/aes/>)  
Kirby Hall 313  
Phone 336-758-4497

### Programs

#### Minor

- Minor in American Ethnic Studies

### Courses

#### American Ethnic Studies (AES)

##### AES 232. The American Jewish Experience. (3 h)

An interdisciplinary course exploring Jewish immigration to America with a primary focus on the nineteenth and twentieth centuries.

##### AES 234. Ethnicity and Immigration. (3 h)

An exploration of the socio-historical dynamics of the peopling of America in the nineteenth and twentieth centuries. (CD)

##### AES 236. Multi-Ethnic Dance. (3 h)

Exploration of the cultural importance of dance in major ethnic groups in American society. Also listed as DCE 236. (CD)

##### AES 251. Race and Ethnic Diversity in America. (3 h)

Different race and ethnic experiences are examined through an institutional approach that examines religion, work, schooling, marriage patterns, and culture from cross-cultural perspective. Grand theoretical schemes like the "melting pot" are critiqued for their relevance in an age of new cultural expectations among the many American ethnic groups. Also listed as WGS 251. (CD)

**AES 265. Culture and Religion in Contemporary Native America. (3 h)**

Interdisciplinary survey of American-Indian culture, including the arts and literature, religions, and historical changes. Special emphasis is placed on the impact of the Conquista, encounters with Northern Atlantic societies, and contemporary developments. Also listed as REL 265 and HMN 285. (CD)

**AES 300. American Ethnic Literature and Film. (3 h)**

Through a discussion of cinematic and literary works from the Caribbean, North Africa, and sub-Saharan Africa, this course explores how artists have created a space in which to find their voice and cultural identity within both a global and personal history.

**AES 310. Race, Class, and Gender in a Color-blind Society. (3 h)**

Examines issues surrounding race, class, and gender in the United States. Topics include income and wealth, theories of discrimination, public education, gender bias, and patterns of occupational and industrial segregation. Also listed as EDU 310.

**AES 341. Africans in the Atlantic World, 1750-1815. (3 h)**

Explores Africans' experience in the Atlantic world (Africa, Europe and the Americas) during the era of the slave trade by examining their encounters with Indians and Europeans and their adjustment to slave traders in West Africa. Also listed as HST 341. (CD)

**AES 357. Studies in Chicano/a Literature. (3 h)**

Writings by Americans of Mexican descent in relation to politics and history. Readings in literature, literary criticism, and socio-cultural analysis. Also listed as ENG 357. (CD)

**AES 358. The Italian Experience in America. (3 h)**

Explores issues of ethnicity and identity in the Italian-American experience. A central goal of this course is to understand the inter-relationship of social, economic and political factors that impinge on this large European ethnic group.

**AES 370. Immigration Practices in the U.S. and the European Union. (3 h)**

Explores the history and theory of immigration practices in the U.S. (after 1800) and the European Union (after its establishment in 1957) and compares the discourses and public policies in the two regions.

**AES 387. African-American Fiction. (3 h)**

Selected topics in the development of fiction by American writers of African descent. Also listed as ENG 387. (CD)

**AES 389. African-American Poetry. (3 h)**

Readings of works by American poets of African descent in theoretical, critical, and historical contexts. Also listed as ENG 389. (CD)

**AES 390. Special Topics. (1.5, 3 h)**

American ethnic studies topics of special interest. May be repeated for credit if topic varies.

**AES 396. Independent Study. (1-3 h)**

Independent projects in American Ethnic Studies which either continue study begun in regular courses or develop new areas of interest. A maximum of 3 hours may apply to the minor. By prearrangement.

## Faculty

**Director** Ana-Maria Wahl

**Professor** Ulrike Wiethaus

**Lecturer** Sherriann Lawson Clark

## American Ethnic Studies, Minor Requirements

Requires 15 hours.

Code	Title	Hours
AES 251	Race and Ethnic Diversity in America (during the second or third year at Wake Forest)	3
or ANT 325	Roots of Racism: Race and Ethnic Diversity in the U.S	
AES 234	Ethnicity and Immigration	3
or SOC 356	Sociology of Immigration	
or COM 339	Practices of Citizenship	
	Select a 3-hour course from the behavioral and social sciences	3
	Select a 3-hour course from the humanities	3
	Electives	3

This structure gives students an understanding of the interdisciplinary nature of American ethnic studies within the context of the traditional liberal arts curriculum.

## Electives for American Ethnic Studies

Additional elective courses may have been approved since publication of this bulletin. The program director maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this bulletin.

Code	Title	Hours
ANT 325	Roots of Racism: Race and Ethnic Diversity in the U.S	3
ANT 374	North American Archaeology	3
COM 330	Communication and Conflict	3
COM 338	African-American Rhetoric	3
COM 339	Practices of Citizenship	3
COM 340	Democracy, Slavery and Sex: Emancipation Discourse from the Founding to the Civil War	3
COM 341	Class, Race, Sex and War: Emancipation Discourse from the Civil War to the Second Wave of Feminism	3
COM 350	Intercultural Communication	3
EDU 305	The Sociology of Education	3
ENG 371	American Ethnic Literature	3
ENG 377	American Jewish Literature	3
ENG 379	Literary Forms of the American Personal Narrative	3
ENG 381	Studies in African-American Literature	3
ENG 393	Multicultural American Drama	3
HST 271	African American History to 1870	3
HST 272	African American History since 1870	3
HST 338	Sexuality, Race and Class in the United States since 1850	3
HST 341	Africans in the Atlantic World, 1750-1815	3
HST 358	Race, Gender and the Courts	3
HST 365	Modern Native American History	3

HST 376	Civil Rights and Black Consciousness Movements	3
HST 378	Race, Memory, and Identity	3
HST 390	Research Seminar (Race, Class, Gender and Resistance in the American South)	4
HST 390	Research Seminar (Slave, Narrative and Memory)	4
MUS 203	Jazz	3
MUS 207	American Music	3
POL 214	Latino/a Political Behavior	3
POL 223	African American Politics	3
POL 224	Racial and Ethnic Politics	3
POL 278	Politics and Identity (on-campus only)	3
PSY 357	Cross-Cultural Psychology	3
PSY 364	Stereotyping and Prejudice	3
REL 103A	Introduction to Christian Traditions	3
REL 113	Introduction to Jewish Traditions	3
REL 342	Religious Intolerance in the U.S	3
REL 345	The African-American Religious Experience	3
REL 357	Jews in the United States	3
REL 359	Hinduism in America	3
REL 373	Special Topics in African-American Religious Traditions	3
REL 374	Black Messiahs and Uncle Toms	3
REL 375	Race, Myth, and the American Imagination	3
SOC 348	Sociology of the Family	3
SOC 356	Sociology of Immigration	3
SOC 359	Race and Racism	3
SOC 360	Social Inequality	3
SOC 364	Power, Politics, and Protest	3
SPA 363	Cultural and Social Entrepreneurship: Promotion of Latin American and Latino Societies	3
WGS 364	Women of Color, Feminisms, and the Politics of Resistance in the U.S	3
WGS 377	Special Topics (Ethnohistory of Native-American Women, in any semester in which this topic is taught)	3
WGS 383	Race, Gender, and the Courts	3

## Anthropology (ANT)

The WFU Department of Anthropology promotes understanding and appreciation of human cultural and biological diversity. Through academic courses, scholarly and applied research, and public service, the Department provides the Wake Forest community with the tools and knowledge necessary for global citizenship. Composed of scholars representing all sub-fields of anthropology, the Department serves as the premier academic and practical resource for multicultural awareness and education in the University and Winston-Salem communities, enhancing the University's commitment to Pro Humanitate.

## Contact Information

Department of Anthropology (<http://college.wfu.edu/anthropology/>)  
Anthropology Building, Box 7807

Phone 336-758-5945

## Programs

### Major

- B.A. in Anthropology

### Minor

- Minor in Anthropology

## Courses

### Anthropology (ANT)

#### ANT 111. People and Cultures of the World. (3 h)

A representative ethnographic survey of worldwide cultures and major concepts in cultural anthropology taught through case studies. Credit toward the major or minor not given for both ANT 111 and ANT 114. (CD, D)

#### ANT 111G. People and Cultures of World. (3 h)

A representative ethnographic survey of worldwide cultures and major concepts in cultural anthropology taught through case studies. Same as ANT 111, and also meets the geography requirement for teaching licensure candidates. (CD, D)

#### ANT 112. Introduction to Archaeology. (3 h)

Overview of the field of archaeology and its place within anthropology. Includes coverage of methods, theory, history of the field, and discussions of major developments in world prehistory (CD, D)

#### ANT 113. Introduction to Biological Anthropology. (3 h)

Introduction to biological anthropology, including human biology, human variation, human genetics, human evolution, and primatology. (D)

#### ANT 114. Introduction to Cultural Anthropology. (3 h)

Investigates and interprets the cultural diversity of the world's people, through an understanding of economic, social, and political systems, law, and religion; language and culture; gender, race, ethnicity, kinship and the family; and globalization and culture change. Credit toward the major or minor not given for both ANT 111 and ANT 114. (CD, D)

#### ANT 150. Introduction to Linguistics. (3 h)

The social phenomenon of language: how it originated and developed, how it is learned and used, its relationship to other kinds of behavior; types of language (oral, written, signed) and language families; analysis of linguistic data; social issues of language use. Also listed as LIN 150. (CD, D)

#### ANT 190. Introduction to Museum Studies. (3 h)

Survey of museum history and theory. Covers object collections, curation, exhibit design, and cultural issues in museums. Does not count toward the major or minor in anthropology. (D)

#### ANT 305. Museum Anthropology. (3 h)

Examines the historical, social, and ideological forces shaping the development of museums including the formation of anthropological collections and representation, and the intellectual and social challenges facing museums today. P - ANT 111 or 112 or 114, or POI.

#### ANT 307. Collections Management Practicum. (1.5 h)

The principles of collections management including artifact registration, cataloging, storage, and handling; conservation issues and practices; disaster planning and preparedness; and ethical issues will be covered through lectures, readings, workshops, and hands-on use of the Museum's collections.



**ANT 308. Archaeological Theory and Practice. (3 h)**

Examination of contemporary archaeological topics through participation in the formulation and implementation of an archaeological research design. Building knowledge relevant to contemporary society through understanding the interdependent nature of archaeological theory and method.

**ANT 315. Artifact Analysis and Laboratory Methods in Archaeology. (4 h)**

An introduction to methods for determining the composition, age, manufacture, and use of different prehistoric and historic artifact types. Techniques for reconstruction of past natural environments from geological or ecofact samples. Exploration of date display tools including computer-based illustration, and archeological photography. P-ANT 111 or 112 or 114, or POI.

**ANT 318. Prehistory and Archaeology of Europe. (3 h)**

Problem-based survey of the archaeological record of Europe. Complex interrelationships of material culture, economy, ideology, and social life from earliest peopling to the late Iron Age. Offered only in WFU Study Abroad programs.

**ANT 325. Roots of Racism: Race and Ethnic Diversity in the U.S. (3 h)**

Examines biological myths of race and race as a social construction; historical, economic, and political roots of inequalities; institutions and ideologies that buttress and challenge power relations; and implications of anthropological teaching and research for understanding social class and race discrimination in the U.S. (CD)

**ANT 327. Global Justice and Human Rights in Latin America. (3 h)**

Examines anthropological understandings of human rights, with emphasis on activism and rights-in-practice in Latin America. Explores how human rights are understood, mobilized, and reinterpreted in specific contexts. Investigates how anthropologists negotiate tensions between culture and rights, universalism and relativism, and advocacy and neutrality. (CD)

**ANT 329. Feminist Anthropology. (3 h)**

Examines cultural constructions of gender from a cross-cultural perspective and the relationship between feminism and anthropology through time. Emphasizes how varied forms of feminisms are constituted within diverse social, cultural, and economic systems. Students consider how feminist anthropologists have negotiated positions at the intersection of cultural and human rights. Also listed as WGS 329.

**ANT 332. Anthropology of Gender. (3 h)**

Focuses on the difference between sex, a biological category, and gender, its cultural counterpart. An anthropological perspective is used to understand both the human life cycle and the status of contemporary women and men worldwide. In section one, topics include evolution and biological development, sexuality and reproduction, parenting, and life cycle changes. The second section takes students to diverse locations, including Africa, South Dakota, China, India, and the Amazon for a cross-cultural comparison examining roles, responsibilities, and expectations, and how these interact with related issues of class and race. (CD)

**ANT 333. Language and Gender. (3 h)**

Uses an anthropological perspective to examine relationships among language structure, language use, persons, and social categories. Also listed as LIN 333.

**ANT 334. People and Cultures of South Asia. (3 h)**

Survey of the people and cultures of the Indian subcontinent in the countries of Afghanistan, Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka. The course reviews major topics of interest to anthropologists, including prehistory, history and politics, religion, social organization, caste, gender, development, and population. (CD)

**ANT 335. Anthropology of Space and Place in the U.S. (3, 4 h)**

Course examines the spatial dimensions of culture by focusing on housing disparities in the U.S. Particular attention is paid to the cultural, gendered, economic, political, and regional contexts of housing policies and the impact policies have on children, families and communities. Course includes an optional Service-Learning community asset mapping assignment of a local Winston-Salem neighborhood.

**ANT 336. Myth, Ritual and Symbolism. (3 h)**

Explores how people envision and manipulate the supernatural in cross-cultural perspective. Emphasizes dynamic aspects of religious beliefs and practices. Also listed as REL 304. P-ANT 111 or 114 or POI. (CD)

**ANT 337. Economic Anthropology. (3 h)**

Examines the relationship between culture and the economy and its implications for applied anthropology. The variable nature and meaning of economic behavior will be examined in societies ranging from non-industrial to post-industrial. Discusses the impact of economic development programs, foreign aid and investment, technology transfer, and a variety of other economic aid programs. P-ANT 111 or 112 or 113 or 114, or POI.

**ANT 339. Culture and Nature: Introduction to Environmental Anthropology. (3 h)**

Exploration of humanity's "place" in the cosmos, focusing on different worldviews of nature and culture. Case studies from anthropology, archeology, and environmental science examine conceptions of technology, resources, environment, and ownership in the context of environmental change, "natural" disasters, and resource scarcity. (CD)

**ANT 340. Anthropological Theory. (4 h)**

Critical review of the major anthropological theories of humans and society. The relevance and significance of these theories to contemporary anthropology are discussed. P-ANT 112 and 113 and 114, or POI.

**ANT 342. Applied Anthropology. (3 h)**

Explores the application of anthropological concepts and methods in the understanding of contemporary problems stemming from cultural diversity, including competing social and economic development models and ideologies of terror. Emphasis is on conflict and change in developing areas but also considers the urban experiences. (CD)

**ANT 347. Warfare and Violent Conflict. (3 h)**

Seminar focusing on the causes and nature of warfare and violent group interaction across cultures and through time. Compares case studies from around the globe and of varying sociopolitical organization, past and present. Includes explorations of primate behavior, forms of warfare, and competing theoretical explanations for its existence and for particular occurrences.

**ANT 350. Language, Indigeneity and Globalization. (3 h)**

Taking a global case-study approach, this seminar explores the role language plays in contemporary identity formation and expression, from indigenous to transnational contexts. Addresses relationships among language and colonialism, postcolonialism, nationalism, cultural revitalization, standardization, social and economic inequality, boundary-formation, and processes of cultural inclusion and exclusion. Also listed as LIN 350. (CD)

**ANT 353. Language in Education. (3 h)**

This seminar explores the role of language in educational contexts; includes the study of bilingual and bicultural education, second language education, cross-cultural education, and communication in the classroom. Service-learning component. Also listed as EDU 353. (CD)

**ANT 354. Field Methods in Linguistic Anthropology. (4 h)**

Trains students in basic skills of collecting and analyzing linguistic data at the levels of phonetics-phonology, grammar, lexico-semantics, discourse, and sociocultural context. Students will learn about the research questions that drive linguistic fieldwork as well as the relevant methods, tools, and practical and ethical concerns. Also listed as LIN 354. P-ANT/LIN 150 or POI.

**ANT 355. Language and Culture. (3 h)**

Covers theoretical and methodological approaches to the study of language and culture, including: semiotics, structuralism, ethnohistory, the ethnography of communication, and sociolinguistics. The topics include: linguistic relativity; grammar and worldview; lexicon and thought; language use and social inequality; language and gender; and other areas. Also listed as LIN 355. (CD)

**ANT 358. Native Peoples of North America. (3 h)**

Ethnology and ethnohistory of the indigenous peoples and cultures of North America since European contact. Explores historic and modern cultures, social and political relationships with Euroamericans, and social justice. (CD)

**ANT 360. Anthropology of Global Health. (3 h)**

A critical introduction to the interdisciplinary field of global health, focusing on contributions from medical anthropology. Compares a diversity of health experiences and evaluates interventions across the globe. Explores how biocultural, political, and economic forces shape patterns of illness and disease with special attention to improving the health of the world's most vulnerable citizens.

**ANT 361. Evolution of Human Behavior. (3 h)**

The application of Darwinian principles to the study of human nature and culture. Considers the existence, origin, and manifestation of human behavioral universals and the theoretical and practical implications of individual variability.

**ANT 362. Medical Anthropology. (3 h)**

Examines Western and non-Western conceptions of health, illness, the roles of patient and healer, and the organization of health in Western and non-Western cultures. Service learning optional. P-ANT 111 or 114, or POI. (CD)

**ANT 363. Primate Behavior and Biology. (3 h)**

Examines the evolution and adaptations of the order Primates. Considers the different ways that ecology and evolution shape social behavior. A special emphasis on the lifeways of monkeys and apes.

**ANT 364. Primate Evolutionary Biology. (3 h)**

Examines the anatomy, evolution, and paleobiology of members of the order Primates. Emphasis is placed on the fossil evidence for primate evolution. Major topics covered include: primate origins, prosimian and anthropoid adaptations, patterns in primate evolution, and the place of humans within the order Primates.

**ANT 366. Human Evolution. (3 h)**

The paleontological evidence for early human evolution, with an emphasis on the first five million years of biocultural evolution.

**ANT 367. Human Biological Diversity. (3 h)**

Seminar focusing on current issues in human biological diversity. Special emphasis on the nature of human variation, and the relationship between human biological diversity and human behavioral diversity. Students learn what is known about how modern human biological variation is patterned and investigate how this variation is interpreted culturally.

**ANT 368. Human Osteology. (4 h)**

Survey and analysis of human skeletal anatomy, emphasizing archeological, anthropological, and forensic applications and practice. Lab-4 hours.

**ANT 370. Origins to Empires: The Archaeology of Africa and Eurasia. (3 h)**

Survey of human prehistory from the earliest hominin social behaviors to the rise of cultural complexity and stratified societies in Africa, Asia, and Europe. Detailed examination of the cultural evolution of state societies within important contexts of past environmental, social, and political change. (CD)

**ANT 372. Environmental Archaeology. (3 h)**

Survey of scientific approaches for reconstructing and interpreting the interactions between past human populations and their environments. Integrates geoarchaeological, archaeobotanical, zooarchaeological, and geochronological methods with anthropological understandings of human construction and experience of environment. Problem-based field activities provide experience applying research techniques and anthropological theory.

**ANT 374. North American Archaeology. (3 h)**

The development of indigenous cultures in North America, from the earliest arrival of people to European contact as outlined by archeological research, with an emphasis on ecology and sociocultural processes. (CD)

**ANT 378. Conservation Archeology. (1.5 h)**

A study of the laws, regulations, policies, programs, and political processes used to conserve prehistoric and historic cultural resources.

**ANT 380. Anthropological Statistics. (3 h)**

Basic statistics, emphasizing application in anthropological research. (QR)

**ANT 381. Field Program in Anthropological Archaeology. (3 h)**

Integrated training in archeological field methods and analytical techniques for researching human prehistory. Students learn archeological survey, mapping, excavation, recording techniques, and artifact and ecofact recovery and analysis. P-ANT 111 or 112 or 113 or 114 or POI. (D)

**ANT 382. Field Program in Anthropological Archaeology. (3 h)**

Integrated training in archeological field methods and analytical techniques for researching human prehistory. Students learn archeological survey, mapping, excavation, recording techniques, and artifact and ecofact recovery and analysis. P-ANT 111 or 112 or 113 or 114 or POI. (D)

**ANT 383. Field program in Cultural Anthropology. (3 h)**

The comparative study of culture and training in ethnographic and cultural analysis carried out in the field. P-ANT 111 or 112 or 113 or 114 or POI. (CD, D)

**ANT 384. Field Program in Cultural Anthropology. (3 h)**

The comparative study of culture and training in ethnographic and cultural analysis carried out in the field. P-ANT 111 or 112 or 113 or 114 or POI. (CD, D)

**ANT 385. Special Problems Seminar. (3 h)**

Intensive investigation of current scientific research within the discipline. The course concentrates on problems of contemporary interest.

**ANT 386. Special Problems Seminar. (3 h)**

Intensive investigation of current scientific research within the discipline. The course concentrates on problems of contemporary interest.

**ANT 387. Ethnographic Research Methods. (4 h)**

Designed to familiarize students with ethnographic research methods and their application. Considers the epistemological, ethical, political, and psychological aspects of research. Field experience and data analysis. P-ANT 111 or 114 or POI.

**ANT 390. Student-Faculty Seminar. (4 h)**

A review of contemporary problems in the fields of archeology, linguistics, and biological and cultural anthropology. Senior standing recommended. P-ANT 112, 113 and 114, or POI.

**ANT 391. Internship in Anthropology. (1-3 h)**

An internship course designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member. P-POI.

**ANT 392. Internship in Anthropology. (1-3 h)**

An internship course designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member. P-POI.

**ANT 393. Community-Based Research or Service-Learning in Anthropology. (1-3 h)**

Semester experience to be taken in conjunction with another anthropology course. Involves the application of anthropological methods and theory within a community-based research project or service-learning framework.

**ANT 394. Mentored Research in Anthropology. (1-3 h)**

Undergraduate research mentored by faculty and involving intensive investigation of an anthropological problem. P-POI.

**ANT 395. Honors Thesis in Anthropology. (1-3 h)**

Research, analysis, and writing of an Honors Thesis required for graduation with departmental honors to be carried out under the supervision of a departmental faculty member. Senior standing required. P-POI.

**ANT 398. Individual Study. (1-3 h)**

A reading or research course designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member. P-POI.

**ANT 399. Individual Study. (1-3 h)**

A reading or research course designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member. P-POI.

## Faculty

**Chair** Steven Folmar

**Professor** Ellen Miller

**Associate Professors** Margaret Bender, Steven Folmar, Eric Jones, Paul Thacker

**Assistant Professors** Karin Friederic, Mary Good, Sherri Lawson Clark

**Academic Director of Museum of Anthropology and Assistant Teaching**

**Professor** Andrew Gurstelle

## Anthropology, B.A.

### Requirements

Requires a minimum of 33 hours and must include:

Code	Title	Hours
<b>Required Major Courses</b>		
ANT 111	People and Cultures of the World	3

or ANT 114	Introduction to Cultural Anthropology	
ANT 112	Introduction to Archaeology	3
ANT 113	Introduction to Biological Anthropology	3
ANT 340	Anthropological Theory	4
ANT 390	Student-Faculty Seminar	4
	Select one course from Linguistic Anthropology	3-4
	Select one course from Methods Courses	3-4

Students are encouraged, but not required, to enroll in a course offering intensive field research training.

A minimum GPA of 2.0 in anthropology courses is required at the time the major is declared. A minimum GPA of 2.0 in anthropology courses counted toward the major is required for graduation. Credit toward the major or minor not given for both ANT 111 and ANT 114. Only one course (excluding ANT 111, ANT 112, ANT 113, ANT 114, ANT 150, ANT 340, ANT 390) can be taken under the pass/fail option and used to meet major requirements. A maximum of four hours of course credit from the following can be used to meet major requirements.

Code	Title	Hours
ANT 391	Internship in Anthropology	1-3
ANT 392	Internship in Anthropology	1-3
ANT 393	Community-Based Research or Service-Learning in Anthropology	1-3
ANT 394	Mentored Research in Anthropology	1-3
ANT 395	Honors Thesis in Anthropology	1-3
ANT 398	Individual Study	1-3
ANT 399	Individual Study	1-3

A maximum of six hours of anthropology transfer credit can be used to meet major requirements.

## Linguistic Anthropology

Code	Title	Hours
ANT 150	Introduction to Linguistics	3
ANT 333	Language and Gender	3
ANT 350	Language, Indigeneity and Globalization	3
ANT 353	Language in Education	3
ANT 354	Field Methods in Linguistic Anthropology	4
ANT 355	Language and Culture	3

## Methods Courses

Code	Title	Hours
ANT 315	Artifact Analysis and Laboratory Methods in Archaeology	4
ANT 354	Field Methods in Linguistic Anthropology	4
ANT 368	Human Osteology	4
ANT 380	Anthropological Statistics	3
ANT 381	Field Program in Anthropological Archaeology	3
ANT 382	Field Program in Anthropological Archaeology	3
ANT 383	Field program in Cultural Anthropology	3

ANT 384	Field Program in Cultural Anthropology	3
ANT 387	Ethnographic Research Methods	4

## Honors

To be graduated with the designation "Honors in Anthropology," highly qualified majors (3.5 GPA in anthropology) should apply to the department for admission to the honors program. Honors students must complete a senior research project, document their research, and satisfactorily defend their work in an oral examination. For additional information, members of the departmental faculty should be consulted.

## Anthropology, Minor

### Requirements

Requires 18 hours and must include:

Code	Title	Hours
Select two of the following:		6
ANT 112	Introduction to Archaeology	
ANT 113	Introduction to Biological Anthropology	
ANT 114	Introduction to Cultural Anthropology	
ANT 150	Introduction to Linguistics	
Select a minimum of six hours at the 200-level or above.		6

Only one course (excluding ANT 112, ANT 113, ANT 114, ANT 150) can be taken under the pass/fail option and used to meet minor requirements. Credit toward the major or minor not given for both ANT 111 and ANT 114. Only three hours from the following may be used toward the minor.

Code	Title	Hours
ANT 391	Internship in Anthropology	1-3
ANT 392	Internship in Anthropology	1-3
ANT 393	Community-Based Research or Service-Learning in Anthropology	1-3
ANT 394	Mentored Research in Anthropology	1-3
ANT 395	Honors Thesis in Anthropology	1-3
ANT 398	Individual Study	1-3
ANT 399	Individual Study	1-3

Only three hours from the following may be used to meet minor requirements.

Code	Title	Hours
ANT 381	Field Program in Anthropological Archaeology	3
ANT 382	Field Program in Anthropological Archaeology	3
ANT 383	Field program in Cultural Anthropology	3
ANT 384	Field Program in Cultural Anthropology	3

A minimum GPA of 2.0 in anthropology courses counted toward the minor is required for graduation.

## Art (ART)

The department offers courses in the history of art, architecture, printmaking, photography, and film from the ancient through modern

periods, and the practice of studio art in six areas: drawing, painting, printmaking, sculpture, photography, and video art. Opportunities to supplement the regular academic program of the department include study abroad in Wake Forest residential study centers, changing art exhibitions in the gallery of the Scales Fine Arts Center, exhibition of student work in the START gallery, and internships in local museums and arts organizations. The art department requires a minimum GPA of 2.0 in the major for graduation.

The department offers two majors, art history and studio art, each requiring ten courses of three or more semester hours each. Any student interested in majoring or minoring in art should contact the art department. Students may major in one field and minor in the other by successfully completing a minimum of 13 courses in art, of which at least eight courses must be in the major field and at least four courses in the minor field.

The department accepts only three courses from a non-Wake Forest program for credit toward the major or minor. Of these three courses, only two may be in the same area of concentration as the major or minor. That is, an art history major or minor may take up to two art history courses and one studio course; a studio major or minor may take up to two studio art courses and one art history course at a non-Wake Forest program. All studio courses taken abroad are assigned ART 210.

Students enrolled at Wake Forest may not take courses in studio art or art history at other institutions to satisfy divisional requirements.

## Contact Information

Department of Art (<http://college.wfu.edu/art/>)  
Scales Fine Arts Center 110A, Box 7232  
Phone 336-758-5310

## Programs

### Majors

- B.A. in Art History
- B.A. in Studio Art

### Minors

- Minor in Art History
- Minor in Studio Art

## Courses

### Art (ART)

*All studio art courses 200 and above and 110A-H may be repeated. Prerequisites may be waived with permission of instructor. All studio art courses may be taken with permission of instructor.*

#### ART 101. Engaging with Art. (1.5 h)

An opportunity to experience and reflect analytically on the arts in the cultural and intellectual life at Wake Forest, with an emphasis on art exhibitions, lectures, and visiting artist talks. Pass/fail only. May not be repeated.

#### ART 103. History of Western Art. (3 h)

The study of visual arts of Europe and America as they relate to history, religion, and the ideas that have shaped Western culture. Explores masterpieces from the ancient world to the present. (D)

**ART 104. Topics in World Art. (3 h)**

An examination of the visual arts in selected world cultures, with discussions of techniques, styles, broader cultural contexts, and confrontations with varying traditions. Topics may include one or more of the following: the arts of China, Japan, India, Pakistan, Bangladesh, Africa, Islamic cultures, or the indigenous cultures of the Americas. (CD, D)

**ART 105. History of World Architecture. (3 h)**

Examines architectural monuments in selected world cultures with discussions of the planning, siting, design, construction, patronage, historical impact, and broader cultural context. (CD, D)

**ART 110. Topics in Studio Art. (1-3 h)**

Studio art courses as determined by individual instructors. (D only if taken for 3h).

**ART 111. Introduction to Studio Art Fundamentals. (3 h)**

Introduces elements and principles of visual language through hands-on experimentation and critical thinking. (D)

**ART 112. Introduction to Painting. (3 h)**

Introduces the fundamentals of the contemporary practice of oil painting. No prior painting experience required, although prior studio art experience is recommended. (D)

**ART 113. Drawing with Digital Integration. (3 h)**

Introduces principles of art and drawing with integration of digital media. Broadens the scope of studio exploration and critical thinking. Introduces raster and vector graphics software. (D)

**ART 114. Introduction to Film and Video Art. (3 h)**

Introduces historical, aesthetic, and technical principles of contemporary video art and film production. Students will work in groups to produce and experimental film and work individually to create a video that focuses on a personal story. (D)

**ART 115. Introduction to Sculpture. (3 h)**

Introduces basic sculptural styles and multimedia, with emphasis on contemporary concepts. Prior studio experience is recommended. (D)

**ART 117. Introduction to Printmaking. (3 h)**

Introduces one or more of the following major divisions of fine art printmaking: relief (woodcuts and linoleum cuts), intaglio (hand engraving and acid etching methods on copper), lithography from limestone slabs, monotype. (D)

**ART 118. Introduction to Drawing. (3 h)**

Drawing fundamentals emphasizing composition, value, line, and form. (D)

**ART 119. Introduction to Darkroom Photography. (3 h)**

An introduction to designing, processing and critiquing black and white photographs, including 35mm camera techniques and lighting. (D)

**ART 120. Introduction to Digital Photography. (3 h)**

An introduction to designing, processing, and critiquing digital images printed with digital media. Includes camera techniques and lighting. (Digital SLR camera required) (D)

**ART 121. Design Studio: Ethics and Aesthetics. (3 h)**

Addresses diverse social, environmental, and economic problems through the design of specific objects and environments in a collaborative studio. A variety of approaches to design development are covered, along with prototyping, testing, and presentation. (D)

**ART 122. Design Studio: Visualization of Ideas. (3 h)**

Employing a variety of different image generating techniques, students produce visual representations which communicate content based upon specific assigned subjects. Imaging methods may include illustration, typography, photography, video etc. as determined by the instructor. (D)

**ART 198. Study Abroad - Art History. (3 h)**

Courses in the history of art associated with Wake Forest study abroad programs. Elective credit only.

**ART 199. International Studies in Art. (1-4 h)**

Offered by art department faculty in locations outside of the United States, on specific topics in art history or studio art. (D only if taken for 3h or 4h). May be repeated when content differs.

**ART 203. Islamic Art and Architecture. (3 h)**

Subjects of study will be drawn from Spain, North Africa, the eastern Mediterranean, Iran, Central Asia, and India, and will focus on selected periods from 650 to the present. (CD, D)

**ART 204. South Asian Art and Architecture. (3 h)**

Topics range from the material culture of the Indus Valley civilization to the art of contemporary South Asia. (CD, D)

**ART 205. The Architecture of Devotion in South Asia. (3 h)**

Explores architecture associated with the major religions of South Asia, including Buddhism, Hinduism, Islam, Sikhism, and Christianity. Building types include stupas, temples, mosques, shrines, and churches. (CD, D)

**ART 206. Art and Empire: India and Europe, 1500-1900. (3 h)**

Examines artistic exchanges between India and various European powers from c. 1500-1900, beginning with the arrival of the Portuguese in Goa and ending with the British imperial era. Readings include primary sources by European and Indian travelers. (CD, D)

**ART 207. Building Empire: Early Modern Islamic Architecture. (3 h)**

Examines Ottoman, Mughal, and Safavid architecture. Topics include imperial palaces, mosques, and mausoleums; the capital cities of Istanbul, Isfahan, and Delhi; royal court culture; and cultural exchanges with European powers. (CD, D)

**ART 208. Ottoman Art and Architecture. (3 h)**

Examines the visual culture of the Ottoman empire in Turkey, the Balkans, the Eastern Mediterranean, and North Africa. Explores imperial architecture; the history of Istanbul; arts of the royal court; cultural exchanges with other world powers; and Ottoman-inspired visual culture in the modern and contemporary periods. (CD, D)

**ART 209. Special Topics in Art. (1-3 h)**

Variable topics in art. Course can be repeated if topic differs.

**ART 210. Topics in Studio Art. (1-4 h)**

Used to designate studio art courses taken at other institutions. May be repeated.

**ART 211. Intermediate Drawing. (4 h)**

Practice and refinement of drawing skills. Emphasis on concept development. P-ART 118 or POI.

**ART 212. Painting II. (4 h)**

Continuation of ART 112 with concentrated emphasis on conceptual development and technical exploration. P-ART 112 or POI.

**ART 213. Painting III. (4 h)**

An individualized course of study with emphasis on refining the skills and concepts developed in Painting II. P-ART 212 or POI.

**ART 214. Film and Video Art: Site Specific. (4 h)**

Continues the historical, aesthetic, and technical exploration of contemporary film and video art production. Students will produce multi-channel video projects that interact with a physical space. P-ART 114 or POI.

**ART 215. Public Art. (4 h)**

Covers art that is sited in the public realm. Exercises with various sites, materials, and audiences, will culminate in a public project. P-ART 115 or POI.

**ART 216. Sculpture Fabrication. (4 h)**

Fabrication of small-scale sculpture using wood, fabric, and metal. Projects stress craftsmanship and imagination. P-ART 115 or POI.

**ART 217. Intermediate Printmaking. (4 h)**

Explorations of multiple-surface and mixed media printmaking methods involving relief, intaglio, and lithography. Color printing methods are explored in the atelier tradition. Strong emphasis on idea development and image generation. P - ART 117 or POI.

**ART 218. Life Drawing. (4 h)**

Introduction to drawing the human figure. May be repeated once. P-ART 118 or POI.

**ART 219. Darkroom Photography. (4 h)**

Further exploration of traditional black and white photography, with an emphasis on alternative processes, camera techniques, aesthetic and critical issues to increase the understanding of the contemporary photographic image. P-ART 119 or 120 or POI.

**ART 221. Advanced Drawing. (4 h)**

Development of a project or series of art works with attention to methodology and material selection. P-ART 211 or POI.

**ART 222. Advanced Painting. (4 h)**

A course of individual study with faculty guidance focused on developing a body of work for exhibition. Will cover various aspects of professional practice including artist statements and proposals, and portfolio development. P-ART 212 or POI.

**ART 224. Film and Video Art: Cyberspace. (4 h)**

Continues the historical, aesthetic, and technical exploration of contemporary film and video art production. Students will produce multi-channel video projects that interact with cyberspace. P-ART 114 or POI.

**ART 225. Bodies and Objects. (4 h)**

This course will explore the social and psychological ramifications of making objects based on the body through casting and other techniques. P-ART 115 or POI.

**ART 226. Installation Art. (4 h)**

Exercises to develop an understanding of material, process, and audience as they relate to contemporary art. The major projects for the course are an installation and a design project. P-ART 115 or POI.

**ART 227. Advanced Printmaking. (4 h)**

Advanced development of printmaking techniques with deeper focus on the unique quality of specific processes. Selected technical concentrations are invited. P - ART 217 or POI.

**ART 228. Film and Video Art: Theatre Works. (4 h)**

Continues the historical, aesthetic, and technical exploration of contemporary film and video art production. Students will produce single-channel film and video projects for theatre viewing. P-ART 114 or POI.

**ART 229. Digital Photography. (4 h)**

Further exploration in designing, printing, and critiquing digital photographs, includes lighting and digital camera techniques. P-ART 119 or 120 or POI.

**ART 230. Spanish Art and Architecture. (3 h)**

Study of the development and uniqueness of Spanish art and architecture within the framework of Mediterranean and Western art in general. Special focus on works viewed during group tours around Spain. Counts as an elective for the Spanish major. Offered in Salamanca.

**ART 231. American Visual Arts. (3 h)**

American art and culture from the Colonial period to 1900 in terms of changing aesthetic standards, social, and historical developments. Includes fine arts, folk arts, material culture, and mass media. (D)

**ART 233. American Architecture. (3 h)**

Discussion-based course examining American architecture from 1650 to the present. (D)

**ART 234. British Art: Nation, Empire, and Identity. (3 h)**

Examines the central role of art and design in forming national identity in Britain, from Henry VIII to present. Topics include the monarchy and art patronage; the country house; exploration and empire building; political and industrial revolutions; debates about modernity. (D)

**ART 235. Arts of London. (3 h)**

A course focused on the collections, exhibits, and architecture of London. The focus of the course will vary depending upon the specialty of the instructor and specific exhibits on view. Offered in London. (D)

**ART 237. Street Photography. (4 h)**

Using digital cameras, the computer and ink jet printers, students examine the creative, social, and critical aspects of contemporary, fine art, photographic image making. Emphasis will be placed on the genre of Street Photography. P-ART 119 or 120 or POI.

**ART 239. Photography and the Handmade Book. (4 h)**

Explores the editing and sequencing of photographic images to direct the audience through the intimate experience of viewing the handmade book in conjunction with the research and discussion of historical and contemporary bookmaking techniques. P-ART 119 or 120 or POI.

**ART 240. Ancient American Art and Architecture. (3 h)**

Topics dealing with the material remains of the civilizations of North, Central, and South America prior to European contact. (CD, D)

**ART 241. Ancient Art and Architecture. (3 h)**

Surveys the major monuments of the ancient world, from prehistory through Late Antiquity, including Mesopotamian, Egyptian, Greek, and Roman works of art and architecture. (D)

**ART 242. Masters and Masterpieces of Spanish Art. (3 h)**

The history of Spanish art and architecture from the 16th century to the present. Special attention to masterpieces made for the Church and court. Counts as an elective for the Spanish major. Offered in Salamanca. (D)

**ART 244. Greek Art and Architecture. (3 h)**

Explores the art and architecture of ancient Greece, from the prehistoric Aegean through the Hellenistic period. (D)

**ART 245. Art and Architecture of the Roman World. (3 h)**

Examines the art and architecture of the ancient Roman world, including Europe, North Africa, and the Near East, from pre-Roman Italy through the period of Late Antiquity and the rise of Christianity. (D)

**ART 246. Byzantine Art and Architecture. (3 h)**

Explores the art and architecture of the Mediterranean world from the foundation of Constantinople as the New Rome in the 4th century until the fall of the Byzantine Empire to the Ottoman Turks in 1453. (D)

**ART 249. The Arts of Medieval Spain. (3 h)**

Examines the visual culture of medieval Spain from the "barbarian" invasions of Late Antiquity through the Islamic period and the Christian Reconquista. Addresses works from architecture to the minor arts, with particular attention to the interactions among their Christian, Muslim, and Jewish makers. (CD, D)

**ART 250. Medieval Art and Architecture. (3 h)**

Surveys the major monuments of the medieval world, from the 4th to 15th centuries, including Byzantine, Islamic, and European works of art and architecture. (D)

**ART 252. Romanesque Art and Architecture. (3 h)**

Explores art and architecture from the Carolingian Renaissance through the 12th century. (D)

**ART 253. The Gothic Cathedral. (3 h)**

The character and evolution of Gothic cathedrals and the sculpture, stained glass, metalworks, and paintings designed for them. (D)

**ART 254. Luxury Arts in the Middle Ages. (3 h)**

Medieval illuminated manuscripts and precious objects made of gold, silver, ivory, enamel, and other luxury materials are the subjects of this course. (D)

**ART 258. The Printed Image in Early Modern Europe. (3 h)**

Technical and artistic development of prints, and the information revolution they brought about. Prints by Durer, Rembrandt, and others. Students will curate an exhibit from the WFU Print Collection. (D)

**ART 259. The History of Photography. (3 h)**

A historical survey of photography from its moment of invention in the 1830s to the present. Students will consider technological shifts—including digital and social media—and the ways photography crosses cultural borders, whether scientific, legal, documentary, or artistic. (D)

**ART 260. Classics of World Cinema. (3 h)**

Selected masterpieces of world film 1930-1970. Emphasizes developing skills for viewing, discussing, and writing about motion pictures as visual and dramatic art. Students must register for both 260 and 260L. (D)

**ART 260L. Classics of World Cinema Lab. (0 h)**

Group film screening.

**ART 261. Topics in Film History. (3 h)**

Variable topics in film history, including genres, major directors, regional or national cinemas, and historical periods. Course may be repeated if topic is different. (D)

**ART 265. Art and Life in Renaissance Europe. (3 h)**

Cross-cultural developments in the visual arts in Italy, Flanders, and other European centers in the 15th and 16th century. Topics include the status of artists; the use of art in the home, the church, and political arena; the economics of art; and art used to disseminate discoveries about science and world explorations. (D)

**ART 266. Art in the Age of Giotto, Dante, and the Plague. (3 h)**

Developments in Italian painting, sculpture, and architecture in the 14th century with special attention to the new naturalism of Giotto and the effects of the Great Plague of 1348 on the arts. (D)

**ART 267. Early Italian Renaissance Art. (3 h)**

The development of art and architecture in Italy in the 15th century. Special attention is given to the works of Donatello, Botticelli, and Leonardo da Vinci. (D)

**ART 268. 16th Century Art in Italy: Magnificence and Reform. (3 h)**

The development of art and architecture in Rome, Florence, Venice and other cities. Artists studied include Michelangelo, Raphael, and Titian. (D)

**ART 269. Venetian Renaissance Art. (3 h)**

A survey of the art of the Venetian Renaissance, with slide lectures and museum visits. Offered in Venice. (D)

**ART 270. Northern Renaissance Art. (3 h)**

A survey of painting, sculpture, and printmaking in Northern Europe from the mid-14th century through the 16th century. (D)

**ART 272. 17th-Century European Art: Politics, Power and Patronage. (3 h)**

Examines art and architecture in Baroque Europe in its religious and social context. Artists studied include Caravaggio, Rubens, and Rembrandt. (D)

**ART 273. 18th-Century European Art: the Birth of the Modern World. (3 h)**

Examines cultural production in Europe, c.1680-1800 with particular attention to fine art, and situates the art of the period within a cultural and historical framework. (D)

**ART 274. 17th-Century Dutch Painting. (3 h)**

Survey of art, artists and cultural issues of the Dutch Golden Age. Artists include Rembrandt, Hals, Steen and Vermeer.(D)

**ART 276. Austrian Art and Architecture. (3 h)**

Study of the development of Austrian art and architecture and its relationship to European periods and styles. Includes visits to sites and museums. Offered in Vienna.

**ART 281. 19th-Century European Art: From Enlightenment to Abstraction. (3 h)**

Considers artistic production of Europe from the French Revolution to the discussion of abstraction in the early 20th century. Examines the notion of modernity as a cultural ideal and the development of avant-gardes in the interplay between art, society, politics and economics. (D)

**ART 282. Modern Art in Europe and the Americas. (3 h)**

A survey of European, American, and Latin American art from the years 1890 to 1945 that focuses on how art intertwines with the expansion of capitalism, two world wars, and colonialism. (D)

**ART 284. Post War/Cold War: Global Art 1945-1990. (3 h)**

A global history of art during the Cold War and its immediate aftermath, 1945-1990. Discussion will focus on the ways that art both underpinned and resisted the Cold War's rigid political positions. (CD, D)

**ART 285. Global Contemporary Art. (3 h)**

A global perspective on contemporary artistic trends since 1990, including discussions about art criticism, exhibitions and the changing art world. (CD,D)

**ART 286. Topics in Art and Architectural History. (3 h)**

Variable topics in art and architectural history, such as historical periods, geographic regions, or specific media. Course can be repeated if topic differs.(D)

**ART 287H. Honors in Art History. (3 h)****ART 287S. Honors in Studio Art. (4 h)****ART 288. Modern Architecture. (3 h)**

A survey of European and American architecture from 1900 to the present. (D)

**ART 290. Printmaking Workshop. (4 h)**

A workshop course exploring relief, intaglio, lithography, and monotype techniques. Open to students at any skill level. Offered in the summer.

**ART 291H. Individual Study. (1.5, 3 h)**

Independent Study in Art History with faculty guidance. P - POI.

**ART 291S. Individual Study. (1-4 h)**

Independent Study in Studio Art with faculty guidance. P - POI.

**ART 293. Practicum. (3, 4 h)**

Internships in local cultural organizations, to be arranged and approved in advance by the art department. Pass/Fail. P-POI.

**ART 295. Studio Seminar. (1-4 h)**

Offered by members of the faculty or visiting faculty on topics of their choice and related studio activities. P-POI.

**ART 297. Management in the Visual Arts. (3 h)**

Provides art students with the skills, experiences, and frameworks for understanding the role that the visual arts play within the national and international economy. Also listed as ENT 312. P-Junior or senior standing and POI.

**ART 298. Contemporary Art and Criticism. (3 h)**

This discussion-based class examines key works of recent art in a sustained and critical manner. The course is associated with the Student Union Buying trip.

**ART 331. American Foundations. (3 h)**

An interdisciplinary study of American art offered through the Honors program. Also listed as HON 393, 394.

**ART 351. Topics in Gender and Art. (3 h)**

Seminar that addresses a range of topics which intersect gender and artistic practice in various cultures and historical periods. Attention will be paid to the role of art in formulating, subverting, or resiting gender norms.

**ART 386. Advanced Topics in Art and Architectural History. (3 h)**

Variable topics in art and architectural history focusing on specialized themes, periods, regions, or media. Course may be repeated if topic differs.

**ART 394. Issues in Art History. (4 h)**

A discussion-based course focusing on critical theory and methods employed by art historians working today as well as by some of the founding figures of the discipline. Intended for art history majors. P-Non-majors, POI.

**ART 396. Art History Seminar. (4 h)**

Focused readings, discussion, and research on a topic selected by members of the faculty. May be repeated. P-One course in art history or POI.

**ART 397. Advanced Topics In Studio Art. (1-4 h)**

Focus on selected studio projects, critical readings, and discussions on topics selected by members of department faculty. P-POI.

## Faculty

**Chair and Professor** Bernadine Barnes

**Charlotte C. Weber Professor of Art** David M. Lubin

**Wake Forest Harold W. Tribble Professor** Page H. Laughlin

**Professors** David L. Faber, David Finn

**Rubin Faculty Fellow and Associate Professor** Morna O'Neill

**ZSR Foundation Faculty Fellow and Associate Professor** Chanchal Dadlani

**Associate Professors** John J. Curley, John R. Pickel, Joel Tauber

**Assistant Professor** Laura Veneskey

**Hoak Family Fellow and Teaching Professor** Leigh Ann Hallberg

**Associate Teaching Professor** Jennifer Gentry

**Adjunct Assistant Professor** Bryan Ellis

**Part-time Assistant Professor** Lisa Ashe

**Teacher-Scholar Postdoctoral Fellow** Nikki Moore

**Visiting Artist-Teacher Fellow** Ian Gerson

**Lecturers** Rachel Barnes, (London), Maria A. Chiari (Venice)

**Part-time Lecturer** Thomas M. Green V

**Adjunct Lecturer** Kristen Haaf

## Art History, B.A.

### Requirements

At least eight courses in art history and two courses in studio art are required.

Code	Title	Hours
<b>Required Major Courses</b>		
ART 103	History of Western Art	3
or ART 105	History of World Architecture	
ART 394	Issues in Art History	4
Select one Art History Seminar		
Select two Studio Art courses		
Or one Studio Art course and one course that combines art history and studio art or offers direct experience with works of art (for example ART 199, 293, 297)		
Select one Art History course in each of the following: *		
A course with a primary focus before 1400		
A course with a primary focus between 1400 and 1800		
A course with a primary focus after 1800		
Select one course from a non-western artistic tradition *		
Submit a portfolio of written work **		

\* The same course can be used to fulfill both of these requirements.

\*\* For precise instructions, contact the art department.

### Art History Courses

Code	Title	Hours
ART 103	History of Western Art	3
ART 104	Topics in World Art	3
ART 105	History of World Architecture	3
ART 198	Study Abroad - Art History	3
ART 199	International Studies in Art	1-4
ART 203	Islamic Art and Architecture	3
ART 204	South Asian Art and Architecture	3
ART 205	The Architecture of Devotion in South Asia	3
ART 206	Art and Empire: India and Europe, 1500-1900	3
ART 207	Building Empire: Early Modern Islamic Architecture	3
ART 208	Ottoman Art and Architecture	3
ART 231	American Visual Arts	3
ART 233	American Architecture	3
ART 234	British Art: Nation, Empire, and Identity	3
ART 235	Arts of London	3
ART 240	Ancient American Art and Architecture	3
ART 241	Ancient Art and Architecture	3
ART 244	Greek Art and Architecture	3
ART 245	Art and Architecture of the Roman World	3
ART 246	Byzantine Art and Architecture	3
ART 249	The Arts of Medieval Spain	3
ART 250	Medieval Art and Architecture	3



ART 252	Romanesque Art and Architecture	3
ART 253	The Gothic Cathedral	3
ART 254	Luxury Arts in the Middle Ages	3
ART 258	The Printed Image in Early Modern Europe	3
ART 259	The History of Photography	3
ART 260	Classics of World Cinema	3
ART 260L	Classics of World Cinema Lab	0
ART 261	Topics in Film History	3
ART 265	Art and Life in Renaissance Europe	3
ART 266	Art in the Age of Giotto, Dante, and the Plague	3
ART 267	Early Italian Renaissance Art	3
ART 268	16th Century Art in Italy: Magnificence and Reform	3
ART 269	Venetian Renaissance Art	3
ART 270	Northern Renaissance Art	3
ART 272	17th-Century European Art: Politics, Power and Patronage	3
ART 273	18th-Century European Art: the Birth of the Modern World	3
ART 274	17th-Century Dutch Painting	3
ART 276	Austrian Art and Architecture	3
ART 281	19th-Century European Art: From Enlightenment to Abstraction	3
ART 282	Modern Art in Europe and the Americas	3
ART 284	Post War/Cold War: Global Art 1945-1990	3
ART 285	Global Contemporary Art	3
ART 286	Topics in Art and Architectural History	3
ART 288	Modern Architecture	3
ART 298	Contemporary Art and Criticism	3
ART 331	American Foundations	3
ART 351	Topics in Gender and Art	3
ART 386	Advanced Topics in Art and Architectural History	3
ART 394	Issues in Art History	4
ART 396	Art History Seminar	4

## Studio Art Courses

All studio art courses 200 and above and 110 may be repeated. Prerequisites may be waived with permission of instructor. All studio art courses may be taken with permission of instructor.

Code	Title	Hours
ART 110	Topics in Studio Art	1-3
ART 111	Introduction to Studio Art Fundamentals	3
ART 112	Introduction to Painting	3
ART 113	Drawing with Digital Integration	3
ART 114	Introduction to Film and Video Art	3
ART 115	Introduction to Sculpture	3
ART 117	Introduction to Printmaking	3
ART 118	Introduction to Drawing	3
ART 119	Introduction to Darkroom Photography	3
ART 120	Introduction to Digital Photography	3
ART 121	Design Studio: Ethics and Aesthetics	3

ART 122	Design Studio: Visualization of Ideas	3
ART 210	Topics in Studio Art	1-4
ART 211	Intermediate Drawing	4
ART 212	Painting II	4
ART 213	Painting III	4
ART 214	Film and Video Art: Site Specific	4
ART 215	Public Art	4
ART 216	Sculpture Fabrication	4
ART 217	Intermediate Printmaking	4
ART 218	Life Drawing	4
ART 219	Darkroom Photography	4
ART 221	Advanced Drawing	4
ART 222	Advanced Painting	4
ART 224	Film and Video Art: Cyberspace	4
ART 225	Bodies and Objects	4
ART 226	Installation Art	4
ART 227	Advanced Printmaking	4
ART 228	Film and Video Art: Theatre Works	4
ART 229	Digital Photography	4
ART 239	Photography and the Handmade Book	4
ART 290	Printmaking Workshop	4
ART 295	Studio Seminar	1-4
ART 397	Advanced Topics In Studio Art	1-4

## Honors

Qualified students in both the studio and art history areas may ask to participate in the department's honors program. To be graduated with the designation "Honors in Art," students must execute a written project or create a body of work; the results of their efforts must be presented and defended before a committee of department faculty. Interested students should consult any member of the department for additional information concerning the requirements for this program.

## Art History, Minor

### Requirements

Code	Title	Hours
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Select four courses in Art History

Or three Art History courses and one course that combines art history and studio art or offers direct experience with works of art (for example ART 199, 293, 297)

Select one course in Studio Art

Students may double minor in art history and studio art, but must complete all minor requirements of each.

All courses in the minor must be three or more semester hours.

### Art History Courses

Code	Title	Hours
ART 103	History of Western Art	3
ART 104	Topics in World Art	3
ART 105	History of World Architecture	3
ART 198	Study Abroad - Art History	3
ART 199	International Studies in Art	1-4

ART 203	Islamic Art and Architecture	3
ART 204	South Asian Art and Architecture	3
ART 205	The Architecture of Devotion in South Asia	3
ART 206	Art and Empire: India and Europe, 1500-1900	3
ART 207	Building Empire: Early Modern Islamic Architecture	3
ART 208	Ottoman Art and Architecture	3
ART 231	American Visual Arts	3
ART 233	American Architecture	3
ART 234	British Art: Nation, Empire, and Identity	3
ART 235	Arts of London	3
ART 240	Ancient American Art and Architecture	3
ART 241	Ancient Art and Architecture	3
ART 244	Greek Art and Architecture	3
ART 245	Art and Architecture of the Roman World	3
ART 246	Byzantine Art and Architecture	3
ART 249	The Arts of Medieval Spain	3
ART 250	Medieval Art and Architecture	3
ART 252	Romanesque Art and Architecture	3
ART 253	The Gothic Cathedral	3
ART 254	Luxury Arts in the Middle Ages	3
ART 258	The Printed Image in Early Modern Europe	3
ART 259	The History of Photography	3
ART 260	Classics of World Cinema	3
ART 260L	Classics of World Cinema Lab	0
ART 261	Topics in Film History	3
ART 265	Art and Life in Renaissance Europe	3
ART 266	Art in the Age of Giotto, Dante, and the Plague	3
ART 267	Early Italian Renaissance Art	3
ART 268	16th Century Art in Italy: Magnificence and Reform	3
ART 269	Venetian Renaissance Art	3
ART 270	Northern Renaissance Art	3
ART 272	17th-Century European Art: Politics, Power and Patronage	3
ART 273	18th-Century European Art: the Birth of the Modern World	3
ART 274	17th-Century Dutch Painting	3
ART 276	Austrian Art and Architecture	3
ART 281	19th-Century European Art: From Enlightenment to Abstraction	3
ART 282	Modern Art in Europe and the Americas	3
ART 284	Post War/Cold War: Global Art 1945-1990	3
ART 285	Global Contemporary Art	3
ART 286	Topics in Art and Architectural History	3
ART 288	Modern Architecture	3
ART 298	Contemporary Art and Criticism	3
ART 331	American Foundations	3
ART 351	Topics in Gender and Art	3
ART 386	Advanced Topics in Art and Architectural History	3

ART 394	Issues in Art History	4
ART 396	Art History Seminar	4

## Studio Art Courses

All studio art courses 200 and above and 110 may be repeated. Prerequisites may be waived with permission of instructor. All studio art courses may be taken with permission of instructor.

Code	Title	Hours
ART 110	Topics in Studio Art	1-3
ART 111	Introduction to Studio Art Fundamentals	3
ART 112	Introduction to Painting	3
ART 113	Drawing with Digital Integration	3
ART 114	Introduction to Film and Video Art	3
ART 115	Introduction to Sculpture	3
ART 117	Introduction to Printmaking	3
ART 118	Introduction to Drawing	3
ART 119	Introduction to Darkroom Photography	3
ART 120	Introduction to Digital Photography	3
ART 121	Design Studio: Ethics and Aesthetics	3
ART 122	Design Studio: Visualization of Ideas	3
ART 210	Topics in Studio Art	1-4
ART 211	Intermediate Drawing	4
ART 212	Painting II	4
ART 213	Painting III	4
ART 214	Film and Video Art: Site Specific	4
ART 215	Public Art	4
ART 216	Sculpture Fabrication	4
ART 217	Intermediate Printmaking	4
ART 218	Life Drawing	4
ART 219	Darkroom Photography	4
ART 221	Advanced Drawing	4
ART 222	Advanced Painting	4
ART 224	Film and Video Art: Cyberspace	4
ART 225	Bodies and Objects	4
ART 226	Installation Art	4
ART 227	Advanced Printmaking	4
ART 228	Film and Video Art: Theatre Works	4
ART 229	Digital Photography	4
ART 239	Photography and the Handmade Book	4
ART 290	Printmaking Workshop	4
ART 295	Studio Seminar	1-4
ART 397	Advanced Topics In Studio Art	1-4

## Studio Art, B.A.

### Requirements

Eight courses in studio art and two courses in art history are required.

Code	Title	Hours
<b>Required Major Courses</b>		
Select three of the four following:		9-12
Printmaking, Drawing, or 2D Design		

Painting or ART 111
Photography or Film/Video
Sculpture or 3D Design *
Select two Art History courses
Or one Art History course and one course that combines art history and studio art or offers direct experience with works of art (for example ART 199, 293, 297)
Submit a portfolio of visual work **

\* Sculpture or 3D Design is required as one of the three areas

\*\* For precise instructions, contact the art department.

For concentration the studio major requires a three-course sequence in one core area of study. The remainder of the courses for the major may be fulfilled by courses in any studio area. Studio courses at the 200 level may be repeated once. Studio art majors who are serious about pursuing a career in art are encouraged to take as many art courses as possible in consultation with their advisor.

Students interested in enrolling in ART 291S must have taken at least one regular course in studio art in the Art Department. An application must be presented to the studio faculty well before advising and registration, the semester before taking the class. Please see the Individual Study Guidelines in the Art Office or speak to a studio faculty member for more details.

## Studio Art Courses

All studio art courses 200 and above and 110 may be repeated. Prerequisites may be waived with permission of instructor. All studio art courses may be taken with permission of instructor.

Code	Title	Hours
ART 110	Topics in Studio Art	1-3
ART 111	Introduction to Studio Art Fundamentals	3
ART 112	Introduction to Painting	3
ART 113	Drawing with Digital Integration	3
ART 114	Introduction to Film and Video Art	3
ART 115	Introduction to Sculpture	3
ART 117	Introduction to Printmaking	3
ART 118	Introduction to Drawing	3
ART 119	Introduction to Darkroom Photography	3
ART 120	Introduction to Digital Photography	3
ART 121	Design Studio: Ethics and Aesthetics	3
ART 122	Design Studio: Visualization of Ideas	3
ART 210	Topics in Studio Art	1-4
ART 211	Intermediate Drawing	4
ART 212	Painting II	4
ART 213	Painting III	4
ART 214	Film and Video Art: Site Specific	4
ART 215	Public Art	4
ART 216	Sculpture Fabrication	4
ART 217	Intermediate Printmaking	4
ART 218	Life Drawing	4
ART 219	Darkroom Photography	4
ART 221	Advanced Drawing	4
ART 222	Advanced Painting	4

ART 224	Film and Video Art: Cyberspace	4
ART 225	Bodies and Objects	4
ART 226	Installation Art	4
ART 227	Advanced Printmaking	4
ART 228	Film and Video Art: Theatre Works	4
ART 229	Digital Photography	4
ART 239	Photography and the Handmade Book	4
ART 290	Printmaking Workshop	4
ART 295	Studio Seminar	1-4
ART 397	Advanced Topics In Studio Art	1-4

## Art History Courses

Code	Title	Hours
ART 103	History of Western Art	3
ART 104	Topics in World Art	3
ART 105	History of World Architecture	3
ART 198	Study Abroad - Art History	3
ART 199	International Studies in Art	1-4
ART 203	Islamic Art and Architecture	3
ART 204	South Asian Art and Architecture	3
ART 205	The Architecture of Devotion in South Asia	3
ART 206	Art and Empire: India and Europe, 1500-1900	3
ART 207	Building Empire: Early Modern Islamic Architecture	3
ART 208	Ottoman Art and Architecture	3
ART 231	American Visual Arts	3
ART 233	American Architecture	3
ART 234	British Art: Nation, Empire, and Identity	3
ART 235	Arts of London	3
ART 240	Ancient American Art and Architecture	3
ART 241	Ancient Art and Architecture	3
ART 244	Greek Art and Architecture	3
ART 245	Art and Architecture of the Roman World	3
ART 246	Byzantine Art and Architecture	3
ART 249	The Arts of Medieval Spain	3
ART 250	Medieval Art and Architecture	3
ART 252	Romanesque Art and Architecture	3
ART 253	The Gothic Cathedral	3
ART 254	Luxury Arts in the Middle Ages	3
ART 258	The Printed Image in Early Modern Europe	3
ART 259	The History of Photography	3
ART 260	Classics of World Cinema	3
ART 260L	Classics of World Cinema Lab	0
ART 261	Topics in Film History	3
ART 265	Art and Life in Renaissance Europe	3
ART 266	Art in the Age of Giotto, Dante, and the Plague	3
ART 267	Early Italian Renaissance Art	3
ART 268	16th Century Art in Italy: Magnificence and Reform	3
ART 269	Venetian Renaissance Art	3
ART 270	Northern Renaissance Art	3

ART 272	17th-Century European Art: Politics, Power and Patronage	3
ART 273	18th-Century European Art: the Birth of the Modern World	3
ART 274	17th-Century Dutch Painting	3
ART 276	Austrian Art and Architecture	3
ART 281	19th-Century European Art: From Enlightenment to Abstraction	3
ART 282	Modern Art in Europe and the Americas	3
ART 284	Post War/Cold War: Global Art 1945-1990	3
ART 285	Global Contemporary Art	3
ART 286	Topics in Art and Architectural History	3
ART 288	Modern Architecture	3
ART 298	Contemporary Art and Criticism	3
ART 331	American Foundations	3
ART 351	Topics in Gender and Art	3
ART 386	Advanced Topics in Art and Architectural History	3
ART 394	Issues in Art History	4
ART 396	Art History Seminar	4

## Honors

Qualified students in both the studio and art history areas may ask to participate in the department's honors program. To be graduated with the designation "Honors in Art," students must execute a written project or create a body of work; the results of their efforts must be presented and defended before a committee of department faculty. Interested students should consult any member of the department for additional information concerning the requirements for this program.

## Studio Art, Minor

### Requirements

Code	Title	Hours
Select four courses in Studio Art		
Or three Studio Art courses and one course that combines art history and studio art or offers direct experience with works of art (for example ART 199, 293, 297)		
Select one course in Art History		

Students may double minor in art history and studio art, but must complete all minor requirements of each.

All courses in the minor must be three or more semester hours.

### Studio Art Courses

All studio art courses 200 and above and 110 may be repeated. Prerequisites may be waived with permission of instructor. All studio art courses may be taken with permission of instructor.

Code	Title	Hours
ART 110	Topics in Studio Art	1-3
ART 111	Introduction to Studio Art Fundamentals	3
ART 112	Introduction to Painting	3
ART 113	Drawing with Digital Integration	3
ART 114	Introduction to Film and Video Art	3

ART 115	Introduction to Sculpture	3
ART 117	Introduction to Printmaking	3
ART 118	Introduction to Drawing	3
ART 119	Introduction to Darkroom Photography	3
ART 120	Introduction to Digital Photography	3
ART 121	Design Studio: Ethics and Aesthetics	3
ART 122	Design Studio: Visualization of Ideas	3
ART 210	Topics in Studio Art	1-4
ART 211	Intermediate Drawing	4
ART 212	Painting II	4
ART 213	Painting III	4
ART 214	Film and Video Art: Site Specific	4
ART 215	Public Art	4
ART 216	Sculpture Fabrication	4
ART 217	Intermediate Printmaking	4
ART 218	Life Drawing	4
ART 219	Darkroom Photography	4
ART 221	Advanced Drawing	4
ART 222	Advanced Painting	4
ART 224	Film and Video Art: Cyberspace	4
ART 225	Bodies and Objects	4
ART 226	Installation Art	4
ART 227	Advanced Printmaking	4
ART 228	Film and Video Art: Theatre Works	4
ART 229	Digital Photography	4
ART 239	Photography and the Handmade Book	4
ART 290	Printmaking Workshop	4
ART 295	Studio Seminar	1-4
ART 397	Advanced Topics In Studio Art	1-4

### Art History Courses

Code	Title	Hours
ART 103	History of Western Art	3
ART 104	Topics in World Art	3
ART 105	History of World Architecture	3
ART 198	Study Abroad - Art History	3
ART 199	International Studies in Art	1-4
ART 203	Islamic Art and Architecture	3
ART 204	South Asian Art and Architecture	3
ART 205	The Architecture of Devotion in South Asia	3
ART 206	Art and Empire: India and Europe, 1500-1900	3
ART 207	Building Empire: Early Modern Islamic Architecture	3
ART 208	Ottoman Art and Architecture	3
ART 231	American Visual Arts	3
ART 233	American Architecture	3
ART 234	British Art: Nation, Empire, and Identity	3
ART 235	Arts of London	3
ART 240	Ancient American Art and Architecture	3
ART 241	Ancient Art and Architecture	3
ART 244	Greek Art and Architecture	3

ART 245	Art and Architecture of the Roman World	3
ART 246	Byzantine Art and Architecture	3
ART 249	The Arts of Medieval Spain	3
ART 250	Medieval Art and Architecture	3
ART 252	Romanesque Art and Architecture	3
ART 253	The Gothic Cathedral	3
ART 254	Luxury Arts in the Middle Ages	3
ART 258	The Printed Image in Early Modern Europe	3
ART 259	The History of Photography	3
ART 260	Classics of World Cinema	3
ART 260L	Classics of World Cinema Lab	0
ART 261	Topics in Film History	3
ART 265	Art and Life in Renaissance Europe	3
ART 266	Art in the Age of Giotto, Dante, and the Plague	3
ART 267	Early Italian Renaissance Art	3
ART 268	16th Century Art in Italy: Magnificence and Reform	3
ART 269	Venetian Renaissance Art	3
ART 270	Northern Renaissance Art	3
ART 272	17th-Century European Art: Politics, Power and Patronage	3
ART 273	18th-Century European Art: the Birth of the Modern World	3
ART 274	17th-Century Dutch Painting	3
ART 276	Austrian Art and Architecture	3
ART 281	19th-Century European Art: From Enlightenment to Abstraction	3
ART 282	Modern Art in Europe and the Americas	3
ART 284	Post War/Cold War: Global Art 1945-1990	3
ART 285	Global Contemporary Art	3
ART 286	Topics in Art and Architectural History	3
ART 288	Modern Architecture	3
ART 298	Contemporary Art and Criticism	3
ART 331	American Foundations	3
ART 351	Topics in Gender and Art	3
ART 386	Advanced Topics in Art and Architectural History	3
ART 394	Issues in Art History	4
ART 396	Art History Seminar	4

## Biochemistry and Molecular Biology (BMB)

### Interdisciplinary Major

This interdisciplinary Bachelor of Science major, jointly offered by the Departments of Biology and Chemistry, provides a strong foundation in biological chemistry and molecular biology, and related topics at the interface of these two disciplines. The major is designed to build conceptual understanding and practical and critical thinking skills to address current biological, biochemical, and biomedical challenges. A required research experience spanning multiple semesters, culminating in a senior project, will give students strong experimental skills and provide insight into biochemical and molecular biological experimental

approaches and results that demonstrate the function of biological molecules. To graduate with a biochemistry and molecular biology major, students must have a minimum GPA of 2.0 in required and elective BIO, BMB, and CHM courses taken at Wake Forest. At the time of major declaration, students will select a major concentration either in biochemistry or in molecular biology. Policies for transfer credits are set by the biology and chemistry departments, as outlined in their bulletin sections.

### Contact Information

Biochemistry and Molecular Biology (<http://college.wfu.edu/biology/undergraduate/biochemistry-and-molecular-biology-bmb/>)  
Wake Downtown Main Office  
Phone 336-702-1926  
e-mail: [bmb@wfu.edu](mailto:bmb@wfu.edu) (%20bmb@wfu.edu)

## Programs

### Major

- B.S. in Biochemistry and Molecular Biology

## Courses

### Biochemistry and Molecular Biology (BMB)

#### **BMB 301. Special Topics in Biochemistry and Molecular Biology. (3 h)**

Courses in selected special topics in biochemistry and molecular biology. May be repeated for credit if course content differs. P - POI.

#### **BMB 370. Biochemistry I: Macromolecules and Metabolism. (3 h)**

Introduces principles of biochemistry including structure, function, and biosynthesis of biological molecules, analysis of enzyme function and activity, bioenergetics, and regulation of metabolic pathways. Also listed as BMB 370 and CHM 370. P-any two of the following with associated labs: CHM 122 (or CHM 123), CHM 280 or BIO 214; or any two of the following: CHM 122 (or CHM 123), CHM 280, or BIO 265.

#### **BMB 371L. Advanced Biochemistry Lab. (1.5 h)**

Emphasizes approaches for isolation and analysis of enzymes. Required for BMB major and the chemistry major with concentration in biochemistry. Recommended for research focused students. Also listed as BIO 371L and CHM 371L. Credit allowed for BIO 370L/CHM 370L, or BMB 371L/BIO 371L/CHM 371L, but not both. P or C-BMB 370/BIO 370/CHM 370.

#### **BMB 372. Advanced Molecular Biology. (3 h)**

Presents molecular mechanisms by which stored genetic information is expressed including the mechanisms for and regulation of gene expression, protein synthesis, and genome editing. Emphasizes analysis and interpretation of experimental data from the primary literature. Also listed as BIO 372. P-BIO 213 and 214 and BIO 370/BMB 370/CHM 370 or BIO 265 and BIO 370/BMB 370/CHM 370.

#### **BMB 372L. Advanced Molecular Biology Laboratory. (1.5 h)**

Introduces modern methods of molecular biology to analyze and manipulate expression of genes and function of gene products. Also listed as BIO 372L. P or C-BIO 372/CHM 372 or BMB 373/CHM 373.

**BMB 373. Biochemistry II. (3 h)**

Examines the structure, function, and synthesis of proteins and nucleic acids and includes advanced topics in biochemistry including catalytic mechanisms of enzymes and ribozymes, use of sequence and structure databases, and molecular basis of disease and drug action. Also listed as CHM 373. P-CHM 223 and BIO 370/BMB 370/CHM 370.

**BMB 376. Biophysical Chemistry. (3 h)**

Fundamentals of physical chemistry applied to biological molecules, including thermodynamics, kinetics, quantum mechanics, and spectroscopy. Emphasizes modern experimental approaches used to analyze biological systems. Also listed as CHM 376. P-CHM 280, BIO/BMB/CHM 370, PHY 114. P or C-MST 112.

**BMB 381. Epigenetics. (3 h)**

Studies the molecular mechanisms for inheritance of genome modifications. Uses primary literature to explore the environmental and developmental signals that influence epigenetic controls of gene expression and disease. Also listed as BIO 381. P-BIO 213 and 214 or BIO 265.

**BMB 381L. Epigenetics Laboratory. (1 h)**

Lab provides hands-on experiences with genome editing and molecular genetics to address the function and expression of genes. Also listed as BIO 381L. P or C-BMB 381 or POI.

**BMB 382. Molecular Signaling. (3 h)**

Examines the molecular and biochemical mechanisms by which hormones, neurotransmitters, and other signaling molecules act to change growth, development, and physiological and behavioral responses of organisms with a focus on discussion of primary literature. Also listed as BIO 382. P-BIO 213, 214, and BIO 370/BMB 370/CHM 370 or BIO 265 and BIO 370/BMB 370/CHM 370.

**BMB 383. Genomics. (3 h)**

Examines the architecture, expression, and evolution of genomes. Uses current primary literature to examine the functional and evolutionary dynamics of genomes and the modern analytic techniques used to investigate genome-wide phenomena. Also listed as BIO 383. P-BIO 160 and 160L or CSC 112 or STA 212; and an introductory statistics course such as STA 111, ANT 380, BIO 380, or PSY 311.

**BMB 383L. Genomics Lab. (1 h)**

Introduces analytic methods and interpretation of genome-wide data through practical tutorials. Also listed as BIO 383L. P or C-BMB 383.

**BMB 388. Senior Seminar in Biochemistry and Molecular Biology. (1 h)**

Discussion of contemporary research and introduction to the biochemical and molecular biology literature and research skills and approaches. P or C-BMB 370/BIO 370/CHM 370.

**BMB 390. Biochemistry and Molecular Biology Research Experience. (0-2 h)**

Research experience and written report for off campus or summer research by prearrangement. Pass/Fail option. May be repeated for credit. Summer research for 0 h is pass/fail only.

**BMB 391. Independent Research. (0.5-2 h)**

Working under the guidance of a faculty member or research staff member, students will conduct an independent research project that involves the collection and analysis of data, and that culminates in a written paper or poster to be submitted to the sponsoring faculty or staff member. P-POI.

**BMB 392. Independent Research. (0.5-2 h)**

Working under the guidance of a faculty member or research staff member, students will conduct an independent research project that involves the collection and analysis of data, and that culminates in a written paper or poster to be submitted to the sponsoring faculty or staff member. P-POI.

**BMB 393. Independent Research. (0.5-2 h)**

Working under the guidance of a faculty member or research staff member, students will conduct an independent research project that involves the collection and analysis of data, and that culminates in a written paper or poster to be submitted to the sponsoring faculty or staff member. P-POI.

**BMB 394. Independent Research. (0.5-2 h)**

Working under the guidance of a faculty member or research staff member, students will conduct an independent research project that involves the collection and analysis of data, and that culminates in a written paper or poster to be submitted to the sponsoring faculty or staff member. P-POI.

**BMB 395. Senior Research Project. (2 h)**

Writing of senior research project or honors thesis. P or C-two of the following: BMB 390/BMB 391/BIO 391/CHM 391, BMB 392/BIO 392/CHM 392.

## Faculty

**Program Coordinator:**

Gloria Muday, Charles M. Allen Professor of Biology

**Core Faculty:**

Rebecca Alexander, Professor of Chemistry  
 Erik C. Johnson, Professor of Biology  
 Lindsay Comstock, Associate Professor of Chemistry  
 Patricia Dos Santos, Associate Professor of Chemistry  
 Sarah McDonald, Associate Professor of Biology  
 Ke Zhang, Associate Professor of Biology  
 Matthew J. Fuxjager, Assistant Professor of Biology  
 James B. Pease, Assistant Professor of Biology  
 Troy Stich, Assistant Professor of Chemistry  
 Diana R. Arnett, Assistant Teaching Professor of Biology  
 Heather Brown-Harding, Assistant Director of Microscopy

## Biochemistry and Molecular Biology, B.S.

### Requirements

The biochemistry and molecular biology major requires 49 credits of BIO, BMB, or CHM courses, and students will need to take at least two courses from these requirements each semester for adequate progress in the major.

Code	Title	Hours
<b>Required Major Courses</b>		
Broad Foundation in Chemistry: *		
CHM 111 & 111L	College Chemistry I and College Chemistry I Lab	4
CHM 280 & 280L	College Chemistry II and Theory and Methods of Quantitative Analysis Lab	4

CHM 122 & 122L	Organic Chemistry I and Organic Chemistry I Lab	4	BMB 376	Biophysical Chemistry	3
or CHM 123 & 123L	Organic Chemistry I Honors and Organic Chemistry I Honors Lab		BMB/BIO 381	Epigenetics	3
CHM 223 & 223L	Organic Chemistry II and Organic Chemistry II Lab	4	BMB/BIO 382	Molecular Signaling	3
Broad Foundation in Biology.*			BMB/BIO 383	Genomics	3
BIO 150 & 150L	Biology I and Biology I Lab	4	BIO 317 & 317L	Plant Physiology and Development and Plant Physiology and Development Lab (lab is optional)	3-4
BIO 160 & 160L	Biology II and Biology II Lab	4	BIO 336 & 336L	Development and Development Lab (lab is optional)	3-4
BIO 265	Cellular and Molecular Biology	3	BIO 360	Metabolic Diseases	3
BMB Core Sequence:			BIO 362	Immunology	3
BMB 370	Biochemistry I: Macromolecules and Metabolism (Third Year)	3	BIO 365	Biology of the Cell	3
BMB 372	Advanced Molecular Biology (Third or fourth year)	3	BIO 367	Virology	3
BMB 373	Biochemistry II	3	BIO 368 & 368L	The Cell Biological Basis of Disease and The Cell Biological Basis of Disease Lab (lab is optional)	3-4
BMB 371L	Advanced Biochemistry Lab (Third Year)	1.5	BIO 369	Cancer Biology	3
BMB 372L	Advanced Molecular Biology Laboratory (Third or fourth year)	1.5	BIO 384	Molecular Evolution	3
BMB 388	Senior Seminar in Biochemistry and Molecular Biology (Senior year only)	1	BIO 388	Methods in Molecular Genetics	4
The BMB research requirement of two semesters or summers of research fulfilled by enrolling in two of the following courses: BMB 390, BMB 391, BIO 391, CHM 391, BMB 392, BIO 392, or CHM 392.**			CHM 324	Medicinal Chemistry I	3
BMB 395	Senior Research Project (Senior year only; guided by a faculty member)	2	CHM 334	Chemical Analysis	4

#### Electives

#### Co-Requirements\*\*\*

MST 112	Calculus with Analytic Geometry II	4
PHY 113	General Physics I	4
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	

\* These biology and chemistry core courses should be completed in the first two years of study.

\*\* At least two semesters or summers of research are required for research performed in a laboratory at Wake Forest University or the Wake Forest School of Medicine.

\*\*\* Should also be completed by the end of the third year.

Elective courses must be selected from the following list. For course descriptions, see the relevant department's listing in this publication. Additional elective courses may have been approved since publication of this bulletin. The program coordinator maintains a complete list of all approved elective courses. Students choosing the concentration in molecular biology can take any two from the list, while students choosing the biochemistry concentration must take either BMB 376 or CHM 341 and one other elective.

## Elective Courses

Code	Title	Hours
BMB 301	Special Topics in Biochemistry and Molecular Biology	3

BMB/BIO 381	Epigenetics	3
BMB/BIO 382	Molecular Signaling	3
BMB/BIO 383	Genomics	3
BIO 317 & 317L	Plant Physiology and Development and Plant Physiology and Development Lab (lab is optional)	3-4
BIO 336 & 336L	Development and Development Lab (lab is optional)	3-4
BIO 360	Metabolic Diseases	3
BIO 362	Immunology	3
BIO 365	Biology of the Cell	3
BIO 367	Virology	3
BIO 368 & 368L	The Cell Biological Basis of Disease and The Cell Biological Basis of Disease Lab (lab is optional)	3-4
BIO 369	Cancer Biology	3
BIO 384	Molecular Evolution	3
BIO 388	Methods in Molecular Genetics	4
CHM 324	Medicinal Chemistry I	3
CHM 334	Chemical Analysis	4
CHM 341	Physical Chemistry I	3
CSC/BIO 385	Bioinformatics	3
CSC/BIO 387	Computational Systems Biology	3
PHY/BIO 307	Biophysics	3
PHY 320	Physics of Biological Macromolecules	3

## Honors

Highly qualified majors may be eligible to graduate with honors in biochemistry and molecular biology if their research project is of sufficient quality. To be awarded the distinction "Honors in Biochemistry and Molecular Biology," a graduating student must have a minimum GPA of 3.0 in all courses and a 3.3 in required and elective BIO, BMB, and CHM courses. Honors students will have begun research before their senior year. Students interested in pursuing an honors degree must obtain preapproval from the program coordinator during the fall of the senior year and enroll in BMB 395 during their senior year. The student must prepare an honors paper describing his or her independent research project, written in the form of a scientific paper, which must be submitted to, and approved by, an advisory committee. Honors students are also required to make a short oral presentation at the end of their senior year. For additional information, please consult the program coordinator or BMB faculty advisors.

## Bioethics, Humanities and Medicine (BHM)

### Interdisciplinary Minor

The interdisciplinary minor in Bioethics, Humanities and Medicine is designed to foster students' understanding of the ethical dimensions of science, health research and health care delivery; to provide students with the knowledge and skills necessary to engage and analyze these dimensions; to facilitate students' integration of their education in the humanities and their understanding of, and approach to, medicine

and health care; and to allow students to bring this interdisciplinary knowledge to bear in medical education and practice.

#### Contact Information

Center for Bioethics, Health & Society (<http://college.wfu.edu/bhmminor/>)  
Tribble Hall B313, Box 7332  
Phone 336-758-4256

## Programs Minor

- Minor in Bioethics, Humanities and Medicine

## Faculty

**Director, Professor of Philosophy** Ana S. Iltis

#### Steering Committee

Simone Caron - Professor of History

Mary Foskett - Professor of Religion

Amanda Gengler - Assistant Professor of Sociology

Pat Lord - Teaching Professor of Biology

## Bioethics, Humanities and Medicine, Minor

### Requirements

The minor requires 18 hours. No more than three credits counting towards a major and no more than six credits counting towards another minor can also count towards the Bioethics, Humanities and Medicine minor.

Code	Title	Hours
<b>Required Courses</b>		
HMN 370	Medicine and the Humanities *	3
or HST 339	Sickness and Health in American History	
Select one of the following:		3
PHI 161	Introduction to Bioethics	
PHI 367	Philosophical Theories in Bioethics	
BIO 210	Ethical Decision-Making in Biology and Medicine	
Select 6 credit hours of Electives from Group A **		6
Select 6 credit hours of Electives from Group B ***		6

\* For HST 339 to fulfill the core requirement, students must obtain the permission of the instructor and complete assignments designed to fulfill the goals of the core requirement.

\*\* Courses in Group A must be taken in two different departments.

\*\*\* Courses in Group B must be taken in two different departments.

### Group A

Code	Title	Hours
ANT 360	Anthropology of Global Health	3
ANT 362	Medical Anthropology	3
COM 345	Rhetoric of Science and Technology	3
COM 355	Survey of Health Communication	3

COM 356	Health Communication: Patient-Provider	3
COM 357	Health Communication and Bioethics	3
COM 358	Health Communication and Bioethics	3
COM 361	Family Communication and Health across the Lifespan	3
COM 370	Special Topics (with permission of the BHM Interdisciplinary Minor Faculty Steering Committee)	1-3
CNS 334	Ethics in Health and Human Services	3
CNS 335	Health and Human Services in a Diverse Society	3
ECN 240	Economics of Health and Medicine	3
HES 360	Epidemiology	3
HPA 150	Introduction to Public Health	3
SOC 329	Health Inequalities	3
SOC 331	The Social and Legal Contexts of Medicine	3
SOC 335	Sociology of Health and Illness	3
SOC 336	Sociology of Healthcare	3
SOC 368	Death and Dying	1.5
SOC 369	Social Movements	3
SOC 383	Special Topics Seminar in Medicine and Health Care	3
WGS 330	Gender and the Politics of Health	3

### Group B

Code	Title	Hours
BIO 210	Ethical Decision-Making in Biology and Medicine *	3
ENG 175	Studies in American Literature (when taught as: Race, Heredity, and Genetics)	3
HMN 365	Humanity and Nature	3
HST 113	Health, Disease and Healing in World History	3
HST 339	Sickness and Health in American History (if HST 339 is not used to fulfill core requirement)	3
PHI 161	Introduction to Bioethics **	3
PHI 360	Ethics	3
PHI 367	Philosophical Theories in Bioethics ***	3
PHI 368	Concepts of Health & Disease	3
REL 307	Magic, Science and Religion	3
REL 329	Chinese Medicine	3
REL 330	Pope, Jefferson and Imam: A Study in Comparative Ethics	3
REL 362	Topics in Islam	3

\* If PHI 367 is used to fulfill core requirement and if PHI 161 is not used as a Group B elective.

\*\* If PHI 367 is used to fulfill core requirement and if BIO 210 is not used as a Group B elective.

\*\*\* If PHI 161 or BIO 210 is used to fulfill core requirement.

Other courses, including Special Topics courses in a number of departments, may be suitable as electives in the minor. These



courses can be counted toward the minor with the approval of the interdisciplinary minor in Bioethics, Humanities and Medicine committee.

## Biology (BIO)

The department offers programs leading to Bachelor of Arts and Bachelor of Science degrees in biology. Students electing to major in biology should consult with their major adviser to determine which degree program is most appropriate for their current career objectives. The requirements for completion of Biology degree programs are those in effect at the time of the declaration of the major, as the curriculum and the departmental requirements may change slightly during the student's period of residence.

**Special Note.** Students enrolled at Wake Forest may not take courses in biology at other institutions to satisfy the divisional requirement.

## Contact Information

Department of Biology (<http://college.wfu.edu/biology/>)  
Winston Hall 226, Box 7325  
Phone 336-758-5322

## Programs Majors

- B.A. in Biology
- B.S. in Biology

## Minor

- Minor in Biology

## Courses Biology (BIO)

All BIO courses numbered 211 through 399 require BIO 150, BIO 150L, BIO 160, and BIO 160L as prerequisites with the exception of BIO 213 and BIO 214. Additional prerequisites may be required and are noted in individual course descriptions.

Under special circumstances, an exceptional student lacking a prerequisite for a particular course may be allowed to enroll in that course by receiving a POI (permission of instructor) from the instructor.

The same numbered course cannot be repeated unless it is a topics course (BIO 301-BIO 306) with a different title.

A maximum of four hours of research in biology (BIO 390, BIO 391, and/or BIO 392) may be applied toward the major, but an additional four hours in research (BIO 392, BIO 393, and/or BIO 394) may be taken and applied as elective hours towards graduation. Research courses should be taken in consecutive order. Only BIO major and minors are eligible to receive BIO credit for research. Only BA majors are eligible to take BIO 399.

### BIO 101. Biology and the Human Condition. (4 h)

Introduction to basic principles in biology, emphasizing recent advances in biology in the context of their ethical, social, political, and economic considerations. Intended for students with little or no previous experience in biology. BIO 101 is not recommended for those pursuing a career in the health professions or who are planning to continue in biology. Does NOT count toward the biology major or minor. Credit not given for both BIO 101 and BIO 111. C-BIO 101L. (D)

### BIO 101L. Biology and the Human Condition-Lab. (0 h)

Lab only. No credit.

### BIO 105. Plants and People. (4 h)

Explores the numerous associations between plants and people, the fundamental importance of plant diversity to humans and their role in the sustainability of the biosphere. This course is intended for students with little or no previous experience in biology and does NOT count toward the major or minor in Biology. (D)

### BIO 111. Biological Principles. (4 h)

Study of the general principles of living things with focus on the cellular, organismal, and population levels of biological organization, emphasizing the role of heredity and evolution in these systems. Used as equivalent credit for prior college level or transfer course work only. Does NOT count toward the major or minor in biology. Credit not given for both BIO 101 and BIO 111. (D)

### BIO 111L. Biological Principles Lab. (0 h)

Lab only. No credit.

### BIO 150. Biology I. (3 h)

Introduction to biological principles and concepts I. Both BIO 150 and 150L must be taken to meet the divisional requirement. (D)

### BIO 150L. Biology I Lab. (1 h)

P or C-BIO 150.

### BIO 160. Biology II. (3 h)

Introduction to biological principles and concepts II. P-BIO 150 and 150L.

### BIO 160L. Biology II Lab. (1 h)

P-BIO 150 and 150L. P or C-BIO 160.

### BIO 202. Bird Taxonomy (Florida). (2 h)

Immersion in bird taxonomy and ecology, conducted in southern Florida during six days of Spring Break. Two on-campus meetings are followed by a trip to top birding sites in North America, viewing over 100 species and covering most of the world's orders of birds. Out-of-pocket costs for food, transportation, and lodging expected to be \$200 or less. P-POI required.

### BIO 208. Understanding Climate Change. (1.5 h)

Introduction to the scientific evidence for climate change.

### BIO 210. Ethical Decision-Making in Biology and Medicine. (3 h)

Examines contemporary issues in bioethics, including responsible conduct in research, implications of technological advances in biology, environmental issues, and controversies in health care and medical practice.

### BIO 212. Biodiversity. (4 h)

Investigates the history of life on earth and examines its diversification in an evolutionary and ecological context. Lectures cover the mechanisms of biological diversification and survey life on earth. Labs introduce students to the broad diversity of life through exercises with living organisms. P-BIO 150, 150L, 160, and BIO 160L. (D)

### BIO 213. Genetics and Molecular Biology. (4 h)

Introduction to the principles and processes of heredity, information flow, and gene function. Topics covered include Mendelian genetics, molecular genetics, and the origin of genetic variation. This course will be offered for the last time Spring 2021. C-BIO 213L.

### BIO 213L. Genetics and Molecular Biology Lab. (0 h)

Lab only. No credit.

**BIO 214. Cellular Biology. (4 h)**

Introduction to the principles and processes of cellular biology and their impact on organismal function. Topics include molecular organization of cellular structures, regulations of cellular functions, bioenergetics, and metabolism. Introduces cancer, immunology, and developmental biology. This course will be offered for the last time in Spring 2021. P-BIO 114 and CHM 111.

**BIO 214L. Cellular Biology Lab. (0 h)**

Lab only. No credit.

**BIO 220. Introduction to Earth Science. (3 h)**

Oceans, weather, climate, earthquakes, volcanoes, soil, and space all play important roles in our dynamic planet. Students will explore the lithosphere, hydrosphere, atmosphere, and biosphere, and gain a deeper understanding of how the Earth operates as a whole. Also listed as ENV 220. P-requires BIO 150, 150L, 160, and BIO 160L if taken as BIO 220.

**BIO 225. Field Biology and Natural History. (3 h)**

Provides a hands-on study of organisms in their natural habitats with an emphasis on local North Carolina biodiversity. Well-established sampling methods in field biology are blended with emerging technologies. P-BIO 150, 150L, 160, and BIO 160L.

**BIO 235. Genetics and Evolution. (3 h)**

Exploration of genetic evolution, biodiversity, adaptation, and genomics. Intended as an intermediate course for developing skills towards advanced studies in genetics, evolution, ecology, and molecular biology. P-BIO 150, 150L, 160, and BIO 160L.

**BIO 245. Comparative Animal Physiology. (3 h)**

Introduction to animal physiology in the context of animal diversity and evolution. P-BIO 150, 150L, 160, and BIO 160L.

**BIO 265. Cellular and Molecular Biology. (3 h)**

Exploration of the molecular mechanisms of cellular functions. P-BIO 150, 150L, 160, and BIO 160L.

**BIO 301. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 302. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 303. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 304. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 305. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 306. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 307. Biophysics. (3 h)**

Introduction to the structure, dynamic behavior, and function of DNA and proteins, and a survey of membrane biophysics. The physical principles of structure determination by X-ray, NMR, and optical methods are emphasized. Also listed as PHY 307. P-BIO 114 or 214, PHY 113 or 123, PHY 114 or 124, or POI. BIO 150, 150L, 160, and BIO 160L may be substituted for BIO 114 and 214.

**BIO 308. Biomechanics. (3 h)**

Analyzes the relationship between organismal form and function using principles from physics and engineering. Solid and fluid mechanics are employed to study design in living systems. P-BIO 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 308L. Biomechanics Lab. (1 h)**

Laboratory study of biomechanics. P or C-BIO 308.

**BIO 309. Comparative Anatomy. (4 h)**

Study of the vertebrate body from an evolutionary, functional, and developmental perspective. Labs emphasize structure and function, primarily through the dissection of representative vertebrates. P-BIO 113 and 114 or BIO 245.

**BIO 310. Community Ecology and Global Change. (4 h)**

An advanced ecology course covering mechanisms that determine the dynamics and distribution of plant and animal assemblages and their responses to and roles in global change. Lectures focus on ecological principles and theory. Lab includes local field trips and discussion of the primary literature. Weekend field trips to Outer Banks and mountains. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 311. Ecology and Conservation Biology of Coral Reefs. (4 h)**

In-depth study of the various biotic and abiotic components that come together to structure ecosystem function and biodiversity at all spatial scales in one of Earth's most productive and diverse environments, yet one most threatened by human use and climate change. Lab component is a one-week field trip over Spring Break. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 313. Herpetology. (4 h)**

Explores the biology of reptiles and amphibians, emphasizing their unique morphological, physiological, behavioral and life-history adaptations, and their evolutionary relationships. The lab consists mostly of field trips. P-BIO 113, 114 and 213 or BIO 150, 150L, 160, and BIO 160L.

**BIO 315. Population Genetics. (3 h)**

Study of the amount and distribution of genetic variation in populations of organisms and of how processes such as mutation, recombination, and selection affect genetic variation. Lectures introduce theoretical studies and include discussion of molecular and phenotypic variation in natural populations. P-BIO 113 and 213 or BIO 150, 150L, 160, and BIO 160L. (QR)

**BIO 315L. Population Genetics Lab. (1 h)**

Uses computer modeling and simulation, and experiments using populations of fruit flies and other model organisms as appropriate. P or C-BIO 315.

**BIO 316. Biology of Birds. (4 h)**

Lecture plus lab course emphasizing ecological and evolutionary influences on the physiology, behavior, diversity, and population biology of birds, and case studies in conservation biology. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 317. Plant Physiology and Development. (3 h)**

Examines the growth, development, and physiological processes of plants. Control of these processes is examined on genetic, biochemical, and whole plant levels. P-BIO 114, 213 and 214 or BIO 265.

**BIO 317L. Plant Physiology and Development Lab. (1 h)**

Consists of structured experiments and an independently designed research project. P or C-BIO 317.

**BIO 323. Animal Behavior. (3 h)**

A survey of laboratory and field research on animal behavior. P-BIO 113 and 114 or BIO 150, 150L, 160, or BIO 160L.

**BIO 323L. Animal Behavior Lab. (1 h)**

Laboratory study of animal behavior. P or C-BIO 323.

**BIO 324. Hormones and Behavior. (3 h)**

Explores the mechanisms of hormonal influences on behavior in a broad range of animals, including humans. P-BIO 114 or BIO 245.

**BIO 327. Mycology: Biology of Fungi. (4 h)**

Introduces fungi, their evolution and natural taxonomy; cell and molecular biology; genetics, mating, and development; primary and secondary biochemistry; and their interactions with other organisms and the environment. Lab introduces culturing, microscopic and molecular techniques. P-BIO 113, 114, 213 and 214 or BIO 150, 150L, 160, and BIO 160L.

**BIO 328. Biology of Aging. (3 h)**

Explores mechanisms of aging, and effects of aging on cellular and physiological processes in a range of organisms. P-BIO 113, 114 and 214; or BIO 235 or BIO 245 or BIO 265.

**BIO 329. Conservation Biology. (3 h)**

Lectures, readings, and discussions examining biological resources, their limitations and methods for sustainability. Genetic, aquatic, terrestrial, and ecosystem resources will be examined. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 330. Land and Natural Resource Management. (3 h)**

Provides a fundamental understanding of land and resource management. The major focus is on federal oversight and policies but state, local, non-profit, and international aspects are included. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 332. Microbiology. (4 h)**

Structure, function, and taxonomy of microorganisms with emphasis on bacteria. Topics include microbial ecology, industrial microbiology, and medical microbiology. Lab emphasizes microbial diversity through characterizations of isolates from nature. P-CHM 122 and BIO 213 and 214 or CHM 122 and BIO 150, 150L, 160, and BIO 160L.

**BIO 333. Vertebrates. (4 h)**

Systematic study of vertebrates, with emphasis on evolution, physiology, behavior, and ecology. Laboratory devoted to systematic, field, and experimental studies. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 334. Parasitology. (4 h)**

Survey of protozoan, helminth, and arthropod parasites with a focus on cellular biology, life cycles, host-parasite relationships, and public health implications. Laboratory emphasizes microscopy-based techniques for examining parasite morphology and intracellular structures. P- BIO 113 and 114 or BIO 265.

**BIO 335. Insect Biology. (4 h)**

Introduction to the diversity, structure, development, physiology, behavior, and ecology of insects. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 336. Development. (3 h)**

Study of the molecular, cellular, and anatomical aspects of embryonic development of invertebrate and vertebrate animals. P-BIO 114, 213 and 214, or BIO 150, 150L, 160, or BIO 160L.

**BIO 336L. Development Lab. (1 h)**

Laboratory study of the molecular, cellular, and anatomical aspects of embryonic development of invertebrate and vertebrate animals. P or C-BIO 336.

**BIO 338. Plant Diversity. (3 h)**

Explores the diversification of plants in the context of convergent evolution, functional processes and ecological importance. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 338L. Plant Diversity. (1 h)**

Plant diversity lab. P or C-BIO 338.

**BIO 340. Ecology. (4 h)**

Introduction to the interrelationships among living systems and their environments; structure and dynamics of major ecosystem types; contemporary problems in ecology. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L. (QR)

**BIO 341. Marine Biology. (3 h)**

An introduction to the physical, chemical, and biological parameters affecting the distribution of marine organisms. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 341L. Marine Biology. (1 h)**

Marine biology lab. P or C-BIO 341.

**BIO 342. Oceanography. (4 h)**

Introduces the geological, physical, chemical, and biological processes that govern the global oceans and their role in climate change. Lab focus is on tools and research questions pertinent to the field of biological oceanography. P-CHM 111 and BIO 113 or CHM 111 and BIO 150, 150L, 160, and BIO 160L.

**BIO 346. Neurobiology. (3 h)**

Introduces the structure and function of the nervous system including the neural basis of behavior. P-BIO 114 and 214 or BIO 150, 150L, 160, and BIO 160L.

**BIO 346L. Neurobiology Lab. (1 h)**

Laboratory emphasizing electrophysiological techniques with experiments from the cellular to the behavioral level. Students will design and complete their own projects. P or C-BIO 346.

**BIO 348. Physiological Plant Ecology. (3 h)**

Provides a fundamental understanding of how plants have adapted to the stresses of their habitats, particularly in harsh or extreme environments such as deserts, the alpine, the arctic tundra, and tropical rain forests. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 348L. Physiological Plant Ecology. (1 h)**

Physiological plant ecology lab. P or C-BIO 348.

**BIO 349. Tropical Biodiversity of the Amazon and Andes. (4 h)**

Intensive field course in tropical biodiversity focusing on ecosystems, natural resource management, and conservation. Students will travel to major tropical biomes in the vast tropical wildernesses of Andean and Amazonian Peru. Lectures emphasize the basic ecological principles important in each ecosystem. Field-based labs focus on student-designed projects. Offered in the summer only. POI required.

**BIO 352. Developmental Neuroscience. (4 h)**

Focuses on the development of neural structures and the plasticity of the mature nervous system. Laboratory features immunocytochemical and cell culture techniques for the study of neurons. P-BIO 213 and 214 or BIO 265.

**BIO 353. Functional Neuroanatomy. (3 h)**

Introduces the anatomical organization of the vertebrate central nervous system. P-BIO 214 or BIO 245.

**BIO 354. Methods in Neuroscience. (3 h)**

Introduces the techniques used in the field of neuroscience. Anatomical, physiological, molecular and behavioral methods are covered through lectures, laboratory work, and reading the primary literature. Also offered in Salamanca. P-BIO 114 and 214 or BIO 150, 150L, 160, and BIO 160L.

**BIO 356. Ecology and Resource Management of Southeast Australia. (4 h)**

Intensive field-oriented course focusing on ecosystems, natural resource management and environmental conservation of southeastern Australia. Students travel to major biomes including sub-tropical rainforests, coral reefs and the Australian urban environment. Laboratories are field-based, with some consisting of student-designed projects. Taught only in summers in Australia. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L or POI.

**BIO 357. Bioinspiration and Biomimetics. (3 h)**

Explores the ways in which biological mechanisms can inspire new technologies, products, and businesses. The course combines basic biological and entrepreneurial principles. Also listed as ENT 357. P-BIO 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 358. Biogeography. (3 h)**

Study of geographic variation and distribution of organismal diversity using theoretical, historical and ecological information with specific applications to conservation and sustainability. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 358L. Biogeography Lab. (1 h)**

Introduces methods of analysis related to the study of biogeography. P or C-BIO 358.

**BIO 360. Metabolic Diseases. (3 h)**

Explores genetic and biochemical pathways in the context of inborn errors of metabolism. P-BIO 370/CHM 370/BMB 370.

**BIO 361. Principles of Biological Microscopy. (4 h)**

Introduces the fundamentals of biological imaging techniques. Students will explore a variety of microscopic methods as well as image acquisition, post-image processing, and scientific figure creation. Emphasis will be on both a theoretical and practical understanding of microscopic imaging principles. Concepts of experimental design and data critique will be explored through student projects and presentations. P-BIO 214 or BIO 265.

**BIO 362. Immunology. (3 h)**

Study of the components and protective mechanisms of the human immune system, including innate and acquired immunity. P-BIO 214 or BIO 265.

**BIO 363. Sensory Biology. (3 h)**

Introduction to sensory physiology and other aspects of sensory systems, e.g. molecular biology and anatomy. Also offered in Salamanca. P-BIO 114 and 214 or BIO 150, 150L, 160, and BIO 160L.

**BIO 363L. Sensory Biology Lab. (1 h)**

Laboratory emphasizing electrophysiological and behavioral techniques to examine sensory systems. Students will design and complete their own projects. P or C-BIO 363.

**BIO 365. Biology of the Cell. (3 h)**

Lecture course on classic and recent experiments in cell biology. Analysis and interpretation of experimental data from the primary literature is emphasized. P-BIO 213 and 214 or any BIO course at the 211 level or above.

**BIO 365L. Biology of the Cell Lab. (1 h)**

Laboratory course introducing basic techniques in cell biology, leading to an independent project. P or C-BIO 365.

**BIO 367. Virology. (3 h)**

Introduces molecular virology, including viral replication, viral-cell interactions, viral disease, and methods for studying and controlling viruses. P-BIO 213 and 214 or BIO 265.

**BIO 368. The Cell Biological Basis of Disease. (3 h)**

Examines defects in basic cellular mechanisms that may lead to disease. P-BIO 214 or BIO 265.

**BIO 368L. The Cell Biological Basis of Disease Lab. (1 h)**

Lab uses advanced microscopic and histological techniques to investigate basic properties of cells. P or C-BIO 368.

**BIO 369. Cancer Biology. (3 h)**

Analysis of molecular and cellular mechanisms that transform normal cells, trigger abnormal proliferation, and lead to tumor formation. Emphasis is on the biological basis of cancer, with some exploration of clinical and social consequences. P-BIO 213 and 214, or BIO 235 or BIO 245, or BIO 265.

**BIO 370. Biochemistry I: Macromolecules and Metabolism. (3 h)**

Introduces principles of biochemistry including structure, function, and biosynthesis of biological molecules, analysis of enzyme function and activity, bioenergetics, and regulation of metabolic pathways. Also listed as BMB 370 and CHM 370. P-any two of the following with associated labs: CHM 122 (or CHM 123), CHM 280 or BIO 214; or any two of the following: CHM 122 (or CHM 123), CHM 280, or BIO 265.

**BIO 370L. Biochemistry Lab. (1 h)**

Overview of biochemical approaches to study structure and function of macromolecules. Also listed as CHM 370L. Credit allowed for BIO 370L/CHM 370L or BIO 371L/BMB 371L/CHM 371L, but not both. P or C-BIO 370/BMB 370/CHM 370.

**BIO 371L. Advanced Biochemistry Lab. (1.5 h)**

Emphasizes approaches for isolation and analysis of enzymes. Required for BMB major and the chemistry major with concentration in biochemistry. Recommended for research focused students. Also listed as BIO 371L and CHM 371L. Credit allowed for BIO 370L/CHM 370L, or BMB 371L/BIO 371L/CHM 371L, but not both. P or C-BMB 370/BIO 370/CHM 370.

**BIO 372. Advanced Molecular Biology. (3 h)**

Presents molecular mechanisms by which stored genetic information is expressed including the mechanisms for and regulation of gene expression, protein synthesis, and genome editing. Emphasizes analysis and interpretation of experimental data from the primary literature. Also listed as BMB 372. P-BIO 370/BMB 370/CHM 370.

**BIO 372L. Advanced Molecular Biology Laboratory. (1.5 h)**

Introduces modern methods of molecular biology to analyze and manipulate expression of genes and function of gene products. Also listed as BMB 372L. P or C-BIO 372/BMB 372 or BMB 373/CHM 373.

**BIO 374. Neuropharmacology. (3 h)**

Introduces how pharmacological agents affect cellular and molecular functions in the nervous system of normal and disease states. Lecture and case studies will be used to examine topics including drugs targeting mood and emotion, memory and dementia, and movement disorders. Drugs of abuse and the neurological basis of addiction will also be evaluated. P-BIO 214 or BIO 150, 150L, 160, and BIO 160L.

**BIO 379. Introduction to Geographic Information Systems (GIS). (4 h)**

Introduces the concepts and use of GIS as a mapping and analytical tool with emphasis on applications environmental modeling, global change, sociodemographic change, and site suitability analyses. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 380. Biostatistics. (3 h)**

An introduction to statistical methods used by biologists, including descriptive statistics, hypothesis-testing, analysis of variance, and regression and correlation. P-BIO 114 or BIO 150, 150L, 160, and BIO 160L. (QR)

**BIO 381. Epigenetics. (3 h)**

Studies the molecular mechanisms for inheritance of genome modifications. Uses primary literature to explore the environmental and developmental signals that influence epigenetic controls of gene expression and disease. Also listed as BMB 381. P-BIO 213 and 214, or BIO 265.

**BIO 381L. Epigenetics Laboratory. (1 h)**

Provides hands-on experiences with genome editing and molecular genetics to address the function and expression of genes. Also listed as BMB 381L. P or C-BIO 381 or POI.

**BIO 382. Molecular Signaling. (3 h)**

Examines the molecular and biochemical mechanisms by which hormones, neurotransmitters, and other signaling molecules act to change growth, development, and physiological and behavioral responses of organisms with a focus on discussion of primary literature. Also listed as BMB 382. P-BIO 213, 214, and BIO 370/BMB 370/CHM 370 or BIO 265 and BIO 370/BMB 370/CHM 370.

**BIO 383. Genomics. (3 h)**

Examines the architecture, expression, and evolution of genomes. Uses current primary literature to examine the functional and evolutionary dynamics of genomes and the modern analytic techniques used to investigate genome-wide phenomena. Also listed as BMB 383. P-BIO 160 and 160L or CSC 112 or STA 212; and an introductory statistics course such as STA 111, ANT 380, BIO 380, or PSY 311.

**BIO 383L. Genomics Lab. (1 h)**

Introduces analytic methods and interpretation of genome wide data through practical tutorials. Also listed as BMB 383L. P or C-BIO 383.

**BIO 384. Molecular Evolution. (3 h)**

Study of the evolutionary analysis of biological sequences in population genetic and phylogenetic contexts. Explores statistical and bioinformatic techniques for investigating population evolution, molecular adaptations, and reconstruction of evolutionary history through primary literature. P-BIO 160 and 160L or CSC 112 or STA 212; and an introductory statistics course such as STA 111, ANT 380, BIO 380, or PSY 311.

**BIO 384L. Molecular Evolution. (1 h)**

Introduces evolutionary analytic methods and interpretation of molecular data through practical tutorials. P or C-BIO 384.

**BIO 385. Bioinformatics. (3 h)**

Introduction to computational approaches essential to modern biological inquiry. Approaches may include large biological dataset analyses, sequence similarity and motif searches, and analysis of high-throughput genomic technologies. Emphasizes interdisciplinary interaction and communication. Also listed as CSC 385 and PHY 385. P-CSC 201 or 221 (and BIO 150, 150L, 160, and BIO 160L if taken as BIO 385) or POI.

**BIO 387. Computational Systems Biology. (3 h)**

Introduction of concepts and development of skills for comprehension of systems biology problems, including both biological and computational aspects. Topics may include genome-wide transcriptomic analysis, protein interaction networks, large-scale proteomics experiments, and computational approaches for modeling, storing, and analyzing the resulting data sets. Emphasizes interdisciplinary interaction and communication. Also listed as CSC 387. P-CSC 201 or 221 (also requires BIO 150, 150L, 160, and BIO 160L if taken as BIO 387) or POI.

**BIO 388. Methods in Molecular Genetics. (4 h)**

Hybrid lecture/laboratory course gives students a hands-on introduction to a diverse array of techniques commonly used in molecular genetics laboratories. P-BIO 213 and 214, or BIO 150, 150L, 160, and BIO 160L.

**BIO 390. Mentored Research. (2 h)**

Introduces the technology and techniques of research. Working under the supervision of a faculty member or research staff, students will obtain experience in experimental design and analysis. The course may be taken as a precursor to BIO 391. Satisfies the research requirement for the BA and BS degrees. Pass/Fail option. P-BIO 150, 150L, 160, 160L, and POI required.

**BIO 391. Independent Research. (2 h)**

Students participate in a research project involving collection or analysis of data to investigate a defined research question. Students are required to submit a written paper or poster documenting research progress. The same numbered course cannot be repeated. Subsequent courses must be taken in consecutive order. Satisfies the research requirement for the BA and BS degree. Pass/Fail option. P-BIO 150, 150L, 160, 160L and POI required.

**BIO 392. Independent Research. (2 h)**

Continuation of research beyond BIO 391. Students are required to submit a written paper or poster documenting research progress. The same numbered course cannot be repeated. Pass/Fail option. P-BIO 391 and POI required.

**BIO 393. Research in Biology. (2 h)**

Continuation of research beyond BIO 392. Students are required to submit a written paper or poster documenting research progress. The same numbered course cannot be repeated. Pass/Fail option. P-BIO 392 and POI required.

**BIO 394. Research in Biology. (2 h)**

Continuation of research beyond BIO 393. Students are required to submit a written paper or poster documenting research progress. The same numbered course cannot be repeated. Pass/Fail option. P-BIO 393 and POI required.

**BIO 399. Mentored Biology. (2 h)**

Students explore career opportunities in biology-related fields or experiences. Students are required to submit a written paper or poster describing research internship or experience to their adviser. Plans must be approved in advance by the adviser. Course can be repeated for credit, but only 4 total hours will count toward the BA BIO major. Does not count toward the BS BIO major or the BIO minor. Pass/Fail only. P-BIO 150, 150L, 160, 160L and POI required.

## Faculty

**Chair** Susan E. Fahrback

**Andrew Sabin Family Foundation Presidential Chair in Conservation Biology** Miles R. Silman

**Charles M. Allen Professor of Biology** Gloria K. Muday

**Reynolds Babcock Chaired Professor of Biology** William K. Smith

**Reynolds Professor** Susan E. Fahrback

**Professors** David J. Anderson, Miriam A. Ashley-Ross, Robert A. Browne, William E. Conner, James F. Curran, Carole L. Gibson, Erik C. Johnson, Kathleen A. Kron, Wayne L. Silver, Clifford W. Zeyl

**Teaching Professors** A. Daniel Johnson, Pat C. W. Lord

**Associate Professors** T. Michael Anderson, Sarah McDonald, Brian W. Tague, Ke Zhang

**Associate Teaching Professors** Diana R. Arnett, Anna Kate Lack

**Assistant Professors** Regina J. Cordy, Joshua Currie, Sheri A. Flöge, James B. Pease

**Visiting Assistant Professor** Christine M. Vega

**Director of Microscopy** Glen S. Marrs

**Assistant Director of Microscopy** Heather Brown-Harding

**Teacher-Scholar Postdoctoral Fellow** Sukhpreet Kaur

## Biology, B.A.

### Requirements

Requires at least 34 hours in the department.

Code	Title	Hours
<b>Required Major Courses</b>		
BIO 150 & 150L	Biology I and Biology I Lab	4
BIO 160 & 160L	Biology II and Biology II Lab	4
Select at least three 300-level four-hour Biology courses		12
BIO 390	Mentored Research	2
or BIO 391	Independent Research	
or BIO 399	Mentored Biology	
Additional hours in Biology beyond BIO 201		12
<b>Co-Requirements</b>		
Choose five of the following *		15-20

\* *Note that co-requirements cannot be satisfied with courses that are cross-listed between Biology and another department or between Biology and the BMB major. These courses may not also be used to satisfy divisional requirements. Co-required courses may be used to satisfy a minor in another department or interdisciplinary program but cannot be counted toward a second major. Note that some of the courses listed may have non-BIO prerequisites.*

Code	Title	Hours
Any CHM course at the 100-, 200-, 300-level except CHM 108, 301, 302, 381, 390, 391, 392, or CHM 395		
ANT 113	Introduction to Biological Anthropology	3
ANT 339	Culture and Nature: Introduction to Environmental Anthropology	3
ANT 360	Anthropology of Global Health	3
ANT 362	Medical Anthropology	3
ANT 366	Human Evolution	3
ANT 368	Human Osteology	4
CNS 335	Health and Human Services in a Diverse Society	3
CNS 340	Professional Orientation to Health and Human Services	3
COM 345	Rhetoric of Science and Technology	3
COM 356	Health Communication: Patient-Provider	3

COM 358	Health Communication and Bioethics	3
CSC 111	Introduction to Computer Science	4
CSC 112	Fundamentals of Computer Science	4
CSC 201	Data Structures and Algorithms	3
CSC 221	Data Structures and Algorithms I	3
ECN 240	Economics of Health and Medicine	3
ECN 241	Environmental and Natural Resource Economics	3
ENG 341	Literature and the Environment	3
ENG 361	Literature and Science	3
HES 262	Statistics in the Health Sciences	3
HES 350	Human Physiology	3
HES 352	Human Gross Anatomy	4
HES 360	Epidemiology	3
HMN 365	Humanity and Nature	3
HPA 150	Introduction to Public Health	3
HST 113	Health, Disease and Healing in World History	3
HST 339	Sickness and Health in American History	3
JOU 375	Special Topics in Journalism (when topic is Environmental and Science Reporting)	1-3
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 117	Discrete Mathematics	4
PHY 113	General Physics I	4
PHY 114	General Physics II	4
PHY 120	Physics and Chemistry of Environment	4
PHY 123	General Physics I - Studio Format	4
PHY 124	General Physics II - Studio Format	4
POL 281	Environmental Political Thought	3
REL 307	Magic, Science and Religion	3
REL 329	Chinese Medicine	3
REL 341	Religion and Ecology	3
STA 111	Elementary Probability and Statistics	4
STA 212	Statistical Models	3
WRI 320	Writing in and about Science: Scientists as Writers and Writers as Scientists	3

For the B.A. major, the schedule of biology and related courses is flexible. After completing BIO 150, BIO 150L, BIO 160, and BIO 160L, students should select courses from the 200- and 300-levels in accord with their interests and career goals. Students may elect to take BIO 150, BIO 150L, BIO 160, and BIO 160L in the first year, BIO 150 and BIO 150L only in the first year, or take BIO 150, BIO 150L, BIO 160, and BIO 160L in fall and spring of the second year. Students taking the B.A. major with an interest in a health profession career are advised to take CHM 111 and CHM 111L in the fall of the first year and to select additional co-requirements after consulting with a health professions adviser.

A maximum of four hours of 390-sequence courses may be counted as hours in the major, but an additional four hours may be taken and applied toward graduation as elective hours. A minimum GPA of 2.0 in biology courses taken at Wake Forest is required for graduation with a major in

biology. The Biology Department may require participation in assessment activities as part of ongoing program evaluation.

## Honors

Highly qualified majors are invited by the department to apply for admission to the honors program in biology during the Fall Semester of their senior year. To be graduated with the distinction "Honors in Biology," a graduating student must have a minimum GPA of 3.0 in all courses and a 3.3 in biology courses. In addition, the student must submit an honors paper describing his or her independent research project, written in the form of a scientific paper, which must be submitted to and approved by an advisory committee. Students are also required to make a short oral presentation to the Biology department at the end of Spring Semester. Specific details regarding the honors program, including selecting an adviser and an advisory committee, deadlines, and writing of the honors thesis, may be obtained from the chair of the departmental Undergraduate Research Committee.

## Biology, B.S. Requirements

Requires at least 34 hours in the department.

Code	Title	Hours
<b>Required Major Courses</b>		
BIO 150 & 150L	Biology I and Biology I Lab	4
BIO 160 & 160L	Biology II and Biology II Lab	4
Select at least three 300-level four-hour Biology courses		12
BIO 390 or BIO 391	Mentored Research or Independent Research	2
Additional hours in Biology beyond BIO 201		12
<b>Co-Requirements</b>		
CHM 111 & 111L	College Chemistry I and College Chemistry I Lab	4
STA 111	Elementary Probability and Statistics *	4
Choose three of the following **		12

\* STA 111 is recommended, but this co-requirement may also be fulfilled by one of the following: ANT 380, HES 262, PSY 311, SOC 271, or STA 212. BIO 380 may be used to fill this requirement, but in that case cannot be counted toward the major requirement as hours in biology. Similarly STA 212 may be used to fill this requirement but in that case cannot be counted towards the major requirement as an "other" co-requisite course.

\*\* Note that co-requirements cannot be satisfied with courses that are cross-listed between Biology and another department or between Biology and the BMB major. These courses may not also be used to satisfy divisional requirements. Co-required courses may be used to satisfy a minor in another department or interdisciplinary program but cannot be counted toward a second major. Note that some of the courses listed may have non-BIO prerequisites.

Code	Title	Hours
Any CHM course at the 100-, 200-, or 300-level except CHM 108, 301, 302, 381, 390, 391, 392, or CHM 395		
CSC 111	Introduction to Computer Science	4

CSC 112	Fundamentals of Computer Science	4
CSC 201	Data Structures and Algorithms	3
CSC 221	Data Structures and Algorithms I	3
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 117	Discrete Mathematics	4
PHY 113	General Physics I	4
PHY 114	General Physics II	4
PHY 123	General Physics I - Studio Format	4
PHY 124	General Physics II - Studio Format	4
STA 212	Statistical Models	3

For the B.S. major, the schedule of biology and related courses is flexible. After completing BIO 150, BIO 150L, BIO 160, and BIO 160L, students should select courses from the 200- and 300-levels in accord with their interests and career goals. It is recommended that all prospective majors take CHM 111 and CHM 111L in the fall of the first year and complete BIO 150 and BIO 150L and STA 111 or an equivalent course during either the fall or spring of the first year. Students taking the B.S. major with an interest in a health profession career are additionally advised to take CHM 122 and CHM 122L in the spring of the first year. These students should select additional co-requirements after consulting with a health professions adviser.

A maximum of four hours of 390-sequence courses (except BIO 399) may be counted as hours in the major, but an additional four hours may be taken and applied toward graduation as elective hours. A minimum GPA of 2.0 in biology courses taken at Wake Forest is required for graduation with a major in biology. The Biology Department may require participation in assessment activities as part of ongoing program evaluation.

## Honors

Highly qualified majors are invited by the department to apply for admission to the honors program in biology during the Fall Semester of their senior year. To be graduated with the distinction "Honors in Biology," a graduating student must have a minimum GPA of 3.0 in all courses and a 3.3 in biology courses. In addition, the student must submit an honors paper describing his or her independent research project, written in the form of a scientific paper, which must be submitted to and approved by an advisory committee. Students are also required to make a short oral presentation to the Biology department at the end of Spring Semester. Specific details regarding the honors program, including selecting an adviser and an advisory committee, deadlines, and writing of the honors thesis, may be obtained from the chair of the departmental Undergraduate Research Committee.

## Biology, Minor Requirements

A minor in Biology requires a total of 18 hours. All minors must complete BIO 150, BIO 150L, BIO 160, BIO 160L and at least one 300-level lab or field course (3 h lecture and 1 h lab or 4 h integrated lecture and lab class). No more than 4 hours in the minor can be fulfilled with biology research courses. BIO minors may not count BIO 399 as hours in the minor. A minimum overall GPA of 2.0 must be earned on all Wake Forest Biology courses taken to complete the minor. The requirements for the minor are those that are in effect at the time of the declaration of the minor, as the curriculum and the departmental requirements may change

slightly during the student's period of residence. A minimum of eight hours in Biology must be taken at Wake Forest.

## Chemistry (CHM)

The department offers programs leading to the BA and BS degrees in chemistry. The BS degrees are certified by the American Chemical Society. A minimum GPA of 2.0 in the first two years of chemistry is required of students who elect to major in the department. Admission to any class is contingent upon satisfactory grades in prerequisite courses, and registration for advanced courses must be approved by the department. Candidates for either the BA or BS degree with a major in chemistry must have a minimum GPA of 2.0 in their chemistry courses numbered 200 or above. Unless otherwise stated, all chemistry courses are open to chemistry majors and minors on a letter-grade basis only (even those courses not required for the major or minor). Majors are required to complete on a letter-grade basis the required physics, biology, and mathematics courses. The BS programs are designed for those students who plan a career in chemistry at the bachelor or advanced degree level. The BA program is designed for those students who do not plan to do graduate work in the physical sciences but desire a stronger background in chemistry than is provided by the chemistry minor program.

The department will accept transfer courses completed at four-year colleges and universities but will not award transfer credit towards the chemistry major and minor except from schools offering a major in chemistry. These courses must be equivalent in content and level to courses offered at Wake Forest (as judged by the department). Transfer credit will not be awarded for online lab classes nor for online lecture courses that have co-requisite labs on our campus. Courses taken in summer school elsewhere, or in study abroad programs, must meet these same criteria and receive pre-approval. Advanced courses, 300-level and above, are typically not transferable. Students enrolled at Wake Forest may not take courses in chemistry at other institutions to satisfy divisional requirements.

The Health Professions Program at Wake Forest recommends that students take the following chemistry courses and their associated labs before the end of the third year.

Code	Title	Hours
CHM 111	College Chemistry I	3
CHM 122 or CHM 123	Organic Chemistry I Organic Chemistry I Honors	3
CHM 223	Organic Chemistry II	3
CHM 280	College Chemistry II	3

Students interested in this track should see the Health Professions Program adviser for more information.

## Contact Information

Chemistry Department (<http://college.wfu.edu/chemistry/>)  
Salem Hall, Box 7486  
Phone 336-758-6139

## Programs Majors

- B.S. in Chemistry
- B.S. in Chemistry with Concentration in Biochemistry

- B.S. in Chemistry with Concentration in Materials Chemistry
- B.S. in Chemistry with Concentration in Medicinal Chemistry and Drug Discovery
- B.A. in Chemistry

## Minor

- Minor in Chemistry

## Courses

Course listings specify prerequisites and corequisites, although admission by permission of instructor, POI, may be granted under special circumstances.

## Chemistry (CHM)

### CHM 108. Everyday Chemistry. (4 h)

Introduction to chemistry for non-science majors. Laboratory covers experimental aspects of topics discussed in lecture. Does not count towards the major or minor in chemistry. C-CHM 108L. (D, QR)

### CHM 108L. Everyday Chemistry Lab. (0 h)

C-CHM 108.

### CHM 111. College Chemistry I. (3 h)

Fundamental chemical principles. Also offered in Salamanca. C-CHM 111L. (D, QR) (Offered Fall Only)

### CHM 111L. College Chemistry I Lab. (1 h)

Laboratory covers experimental aspects of basic concepts. C-CHM 111. (Offered Fall Only)

### CHM 120. Physics and Chemistry of the Environment. (4 h)

Covers the basic physical and chemical processes in the earth's atmosphere, biosphere and the oceans. Also listed as PHY 120. (D, QR)

### CHM 120L. Physics and Chemistry of the Environment Lab. (0 h)

C-CHM 120.

### CHM 122. Organic Chemistry I. (3 h)

Principles and reactions of organic chemistry. Students may not receive credit for both CHM 122 and CHM 123. P-CHM 111. C-CHM 122L. (D) (Offered Spring Only)

### CHM 122L. Organic Chemistry I Lab. (1 h)

P-CHM 111. C-CHM 122. (Offered Spring Only)

### CHM 123. Organic Chemistry I Honors. (3 h)

Principles and reactions of organic chemistry. Freshmen only, by invitation. P-CHM 111. C-CHM 123L. (D) (Offered Fall Only)

### CHM 123L. Organic Chemistry I Honors Lab. (1 h)

P-CHM 111. C-CHM 123. (Offered Fall Only)

### CHM 223. Organic Chemistry II. (3 h)

Principles and reactions of organic chemistry. P-CHM 122 or 123. (Offered Spring and Fall)

### CHM 223L. Organic Chemistry II Lab. (1 h)

P or C-CHM 223.

### CHM 280. College Chemistry II. (3 h)

Advanced study of fundamental chemical principles. P-CHM 111. (D, QR) (Offered Spring Only)

### CHM 280L. Theory and Methods of Quantitative Analysis Lab. (1 h)

Emphasizes technique development for accuracy and precision. P or C-CHM 280. (Offered Spring Only)



**CHM 301. Elective Research. (0 h)**

P-POI. Summers only.

**CHM 302. Elective Research. (0 h)**

P-POI. Summers only.

**CHM 311. Current Topics. (1-4 h)**

Course exploring current topics in chemistry. May be repeated for credit if course content differs. Does not count toward the major or minor in chemistry. P-POI.

**CHM 321. Intermediate Organic Chemistry. (3 h)**

Survey of advanced topics in organic chemistry including stereochemistry, conformational analysis, reaction mechanisms, organometallic chemistry and asymmetric synthesis. P-CHM 223, CHM 223L, and CHM 280.

**CHM 324. Medicinal Chemistry I. (3 h)**

An introduction to drug targets, mechanism, design, and synthesis. P-CHM 223, 370. (Offered Fall Only)

**CHM 324L. Medicinal Chemistry Laboratory. (1.5 h)**

A lab designed to introduce the concept of structure-activity relationships (SAR) using computation, synthetic chemical, physiochemical, and biological techniques. P-CHM 223L. P or C-CHM 324.

**CHM 334. Chemical Analysis. (4 h)**

Theoretical and practical applications of modern methods of chemical analysis. P-CHM 280L. C-CHM 334L. (Offered Fall Only)

**CHM 334L. Chemical Analysis Lab. (0 h)**

Lab only. No credit. C-CHM 334.

**CHM 341. Physical Chemistry I. (3 h)**

Fundamentals of thermodynamics and phenomenological kinetics, and introductory computational methods. Also offered in Salamanca. P-CHM 280, MST 112. P or C-PHY 114 or 124. (Offered Fall Only)

**CHM 341L. Physical Chemistry I Lab. (1 h)**

P-CHM 280L. P or C-CHM 341, PHY 114 or 124.

**CHM 342. Physical Chemistry II. (3 h)**

Fundamentals of quantum mechanics, statistical thermodynamics, and introductory computational methods. P-CHM 341, MST 112, and PHY 114 or 124. P or C-MST 113. (Offered Spring Only)

**CHM 342L. Physical Chemistry II Lab. (1 h)**

P or C-CHM 342.

**CHM 351. Special Topics in Chemistry. (3 h)**

Courses in selected special topics in chemistry. May be repeated for credit if course content differs. P- POI.

**CHM 361. Inorganic Chemistry. (3 h)**

Principles and reactions of inorganic chemistry. P or C-CHM 280. C-CHM 361L. (Offered Spring only)

**CHM 361L. Inorganic Chemistry Lab. (1 h)**

P-CHM 280L. C-CHM 361.

**CHM 362. Nanochemistry in Energy and Medicine. (3 h)**

Advanced topics in nanomaterials science, photochemistry, energy conversion optoelectronics and biomedical photonics. P-CHM 280 and CHM 280L.

**CHM 364. Materials Chemistry. (3 h)**

A survey of inorganic-, organic-, bio-, and nano-materials, including hybrid materials and applications. P-CHM 280 (Offered every other spring).

**CHM 364L. Materials Chemistry Lab. (1 h)**

Synthesis of inorganic and organic based materials and their characterization. P-CHM 280L. P or C-CHM 364.

**CHM 366. Chemistry and Physics of Solid State Materials. (3 h)**

Design, synthesis, structure, chemical and physical properties, and the application of solid state materials. P- CHM 280.

**CHM 370. Biochemistry I: Macromolecules and Metabolism. (3 h)**

Introduces principles of biochemistry including structure, function, and biosynthesis of biological molecules, analysis of enzyme function and activity, bioenergetics, and regulation of metabolic pathways. Also listed as BMB 370 and CHM 370. P-any two of the following with associated labs: CHM 122 (or CHM 123), CHM 280 or BIO 214; or any two of the following: CHM 122 (or CHM 123), CHM 280, or BIO 265.

**CHM 370L. Biochemistry Lab. (1 h)**

Overview of biochemical approaches to study structure and function of macromolecules. Does not count towards the chemistry major with concentration in biochemistry. Also listed as BIO 370L. Credit allowed for CHM 370L/BIO 370L or CHM 371L/BIO 371L/BMB 371L, but not both. P or C-CHM 370/BIO 370/BMB 370.

**CHM 371L. Advanced Biochemistry Lab. (1.5 h)**

Emphasizes approaches for isolation and analysis of enzymes. Required for BMB major and the chemistry major with concentration in biochemistry. Recommended for research focused students. Also listed as BIO 371L and CHM 371L. Credit allowed for BIO 370L/CHM 370L, or BMB 371L/BIO 371L/CHM 371L, but not both. P or C-BMB 370/BIO 370/CHM 370.

**CHM 373. Biochemistry II. (3 h)**

Examines the structure, function, and synthesis of proteins and nucleic acids and includes advanced topics in biochemistry including catalytic mechanisms of enzymes and ribozymes, use of sequence and structure databases, and molecular basis of disease and drug action. Also listed as BMB 373. P-CHM 223 and BIO 370/BMB 370/CHM 370.

**CHM 376. Biophysical Chemistry. (3 h)**

Fundamentals of physical chemistry applied to biological molecules, including thermodynamics, kinetics, quantum mechanics, and spectroscopy. Emphasizes modern experimental approaches used to analyze biological systems. Also listed as BMB 376. P-CHM 280, BIO/BMB/CHM 370, PHY 114. P or C-MST 112.

**CHM 381. Chemistry Seminar and Literature. (0.5 h)**

Discussions of contemporary research and introduction to the chemical literature and acquisitions of chemical information. Pass/Fail only. P-CHM 122 or 123. (Offered Fall Only)

**CHM 390. Chemical Research Experience. (0, 1.5 h)**

Research experience and written report. Requires pre-approval of research project conducted off the Reynolda campus, by prearrangement. Pass/Fail only. May be repeated for credit.

**CHM 391. Undergraduate Research. (0.5-3 h)**

Undergraduate research and written report. Lab-3-16 hours. May be repeated for credit. P-POI. (Offered Fall Only)

**CHM 392. Undergraduate Research. (0.5-3 h)**

Undergraduate research and written report. Lab-3-16 hours. May be repeated for credit. P-POI. (Offered Spring Only)

**CHM 395. Senior Capstone. (0.5 h)**

Discussions of contemporary research and integration of chemical information with scientific dissemination. Pass/fail only. P or C-CHM 361. (Offered Spring Only)

## Faculty

**Thurman D. Kitchin Professor of Chemistry and Chair** S. Bruce King

**John B. White Professor of Chemistry** Willie L. Hinze

**William L. Poteat Professor of Chemistry** Mark E. Welker

**Professors** Rebecca W. Alexander, Ulrich Bierbach, Christa L. Colyer, Patricia Dos Santos, Bradley T. Jones, Abdessadek Lachgar, Akbar Salam  
**Associate Professors** Lindsay R. Comstock-Ferguson, Amanda C. Jones, Paul B. Jones

**Assistant Professors** Wendu Ding, Scott M. Geyer, Elham Ghadiri, John C. Lukesh, Troy A. Stich

**Teaching Professors** Angela Glisan King, Albert Rives

**Associate Teaching Professor** John Tomlinson

**Associate Teaching Professor and Director of Chemistry Center** David Wren

**Research Associate Professor** George L. Donati

**Visiting Assistant Professor** Sarmad Hando

**Teacher Scholar Postdoctoral Fellow** Allison Rice

## Chemistry with Concentration in Biochemistry, B.S.

### Requirements

Requires 39.5-42.5 hours in chemistry and must include the following courses:

Code	Title	Hours
<b>Required Major Courses</b>		
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1
CHM 122	Organic Chemistry I	3
or CHM 123	Organic Chemistry I Honors	
CHM 122L	Organic Chemistry I Lab	1
or CHM 123L	Organic Chemistry I Honors Lab	
CHM 223	Organic Chemistry II	3
CHM 223L	Organic Chemistry II Lab	1
CHM 280	College Chemistry II	3
CHM 280L	Theory and Methods of Quantitative Analysis Lab	1
CHM 334	Chemical Analysis	4
CHM 334L	Chemical Analysis Lab	0
CHM 341	Physical Chemistry I	3
CHM 341L	Physical Chemistry I Lab	1
CHM 361	Inorganic Chemistry	3
CHM 361L	Inorganic Chemistry Lab	1
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 371L	Advanced Biochemistry Lab	1.5
CHM 373	Biochemistry II	3
CHM 381	Chemistry Seminar and Literature	0.5
CHM 395	Senior Capstone	0.5
Select one of the following options:		0-3
<b>Option 1:</b>		
CHM 390	Chemical Research Experience	
<b>Option 2:</b>		
Select no fewer than 1.5 hours of the following:		
CHM 391	Undergraduate Research	
CHM 392	Undergraduate Research	
Select one of the following:		3
CHM 321	Intermediate Organic Chemistry	

CHM 324	Medicinal Chemistry I	
CHM 342	Physical Chemistry II	
CHM 351	Special Topics in Chemistry	
CHM 362	Nanochemistry in Energy and Medicine	
CHM 364	Materials Chemistry	
CHM 366	Chemistry and Physics of Solid State Materials	
CHM 376	Biophysical Chemistry	
Any chemistry graduate class (POI)		
<b>Co-Requirements</b>		
BIO 265	Cellular and Molecular Biology	3
MST 112	Calculus with Analytic Geometry II	4
PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	

For the **B.S. major with concentration in biochemistry**, the following schedule of chemistry and related courses is typical:

Code	Title	Hours
<b>First Year</b>		
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1
CHM 122	Organic Chemistry I	3
or CHM 123	Organic Chemistry I Honors	
CHM 122L	Organic Chemistry I Lab	1
or CHM 123L	Organic Chemistry I Honors Lab	
BIO 150	Biology I	3
BIO 160	Biology II	3
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
<b>Sophomore</b>		
CHM 223	Organic Chemistry II	3
CHM 223L	Organic Chemistry II Lab	1
CHM 280	College Chemistry II	3
CHM 280L	Theory and Methods of Quantitative Analysis Lab	1
BIO 265	Cellular and Molecular Biology	3
PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	
<b>Junior</b>		
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 371L	Advanced Biochemistry Lab	1.5
CHM 381	Chemistry Seminar and Literature	0.5
<b>Junior or Senior</b>		
CHM 334	Chemical Analysis	4
CHM 334L	Chemical Analysis Lab	0
CHM 341	Physical Chemistry I	3

CHM 341L	Physical Chemistry I Lab	1
CHM 391	Undergraduate Research	0-3
or CHM 392	Undergraduate Research	
or CHM 390	Chemical Research Experience	
<b>Senior</b>		
CHM 361	Inorganic Chemistry	3
CHM 361L	Inorganic Chemistry Lab	1
CHM 373	Biochemistry II	3
CHM 395	Senior Capstone	0.5
Upper-level CHM elective		

## Honors

Qualified majors are considered for honors in chemistry. To be graduated with the designation "Honors in Chemistry," a student must have a minimum GPA in chemistry courses of 3.3 and a minimum overall GPA of 3.0. In addition, the honors candidate must satisfactorily complete an approved research project, prepare a paper describing the project, and present results at a seminar for departmental approval. Honors thesis research must be conducted on the Wake Forest University campus with a WFU Chemistry faculty member as research adviser or co-adviser. For additional information, members of the departmental faculty should be consulted.

## Chemistry with Concentration in Materials Chemistry, B.S.

### Requirements

Requires 43-46 hours in chemistry and must include the following courses:

Code	Title	Hours
<b>Required Major Courses</b>		
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1
CHM 122	Organic Chemistry I	3
or CHM 123	Organic Chemistry I Honors	
CHM 122L	Organic Chemistry I Lab	1
or CHM 123L	Organic Chemistry I Honors Lab	
CHM 280	College Chemistry II	3
CHM 280L	Theory and Methods of Quantitative Analysis Lab	1
CHM 334	Chemical Analysis	4
CHM 334L	Chemical Analysis Lab	0
CHM 341	Physical Chemistry I	3
CHM 341L	Physical Chemistry I Lab	1
CHM 342	Physical Chemistry II	3
CHM 342L	Physical Chemistry II Lab	1
CHM 361	Inorganic Chemistry	3
CHM 361L	Inorganic Chemistry Lab	1
CHM 364	Materials Chemistry	3
CHM 364L	Materials Chemistry Lab	1
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 370L	Biochemistry Lab	1

or CHM 371L	Advanced Biochemistry Lab	
CHM 381	Chemistry Seminar and Literature	0.5
CHM 395	Senior Capstone	0.5
Select one of the following Options:		0-3
Option 1:		
CHM 390	Chemical Research Experience	
Option 2:		
Select no fewer than 1.5 hours of the following:		
CHM 391	Undergraduate Research	
CHM 392	Undergraduate Research	
Select two of the following:		6
CHM 223	Organic Chemistry II	
CHM 321	Intermediate Organic Chemistry	
CHM 324	Medicinal Chemistry I	
CHM 351	Special Topics in Chemistry	
CHM 362	Nanochemistry in Energy and Medicine	
CHM 366	Chemistry and Physics of Solid State Materials	
CHM 376	Biophysical Chemistry	
PHY 354	Introduction to Solid State Physics	

### Co-Requirements

PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4

For the **B.S. major with concentration in materials chemistry**, the following schedule of chemistry and related courses is typical:

Code	Title	Hours
<b>First Year</b>		
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1
CHM 122	Organic Chemistry I	3
or CHM 123	Organic Chemistry I Honors	
CHM 122L	Organic Chemistry I Lab	1
or CHM 123L	Organic Chemistry I Honors Lab	
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
<b>Sophomore</b>		
CHM 223	Organic Chemistry II (Elective)	3
CHM 280	College Chemistry II	3
CHM 280L	Theory and Methods of Quantitative Analysis Lab	1
PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	
MST 113	Multivariable Calculus	4
<b>Junior</b>		

CHM 341	Physical Chemistry I	3
CHM 341L	Physical Chemistry I Lab	1
CHM 342	Physical Chemistry II	3
CHM 342L	Physical Chemistry II Lab	1
CHM 381	Chemistry Seminar and Literature	0.5
<b>Junior or Senior</b>		
CHM 334	Chemical Analysis	4
CHM 334L	Chemical Analysis Lab	0
CHM 364	Materials Chemistry	3
CHM 364L	Materials Chemistry Lab	1
CHM 391	Undergraduate Research	0-3
or CHM 392	Undergraduate Research	
or CHM 390	Chemical Research Experience	
<b>Senior</b>		
CHM 361	Inorganic Chemistry	3
CHM 361L	Inorganic Chemistry Lab	1
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 370L	Biochemistry Lab	1
or CHM 371L	Advanced Biochemistry Lab	
CHM 395	Senior Capstone	0.5
Upper-level CHM or PHY elective		

## Honors

Qualified majors are considered for honors in chemistry. To be graduated with the designation "Honors in Chemistry," a student must have a minimum GPA in chemistry courses of 3.3 and a minimum overall GPA of 3.0. In addition, the honors candidate must satisfactorily complete an approved research project, prepare a paper describing the project, and present results at a seminar for departmental approval. Honors thesis research must be conducted on the Wake Forest University campus with a WFU Chemistry faculty member as research adviser or co-adviser. For additional information, members of the departmental faculty should be consulted.

# Chemistry with Concentration in Medicinal Chemistry and Drug Discovery, B.S.

## Requirements

Requires 39.5-45.5 hours in chemistry and must include the following courses:

Code	Title	Hours
<b>Required Major Courses</b>		
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1
CHM 122	Organic Chemistry I	3
or CHM 123	Organic Chemistry I Honors	
CHM 122L	Organic Chemistry I Lab	1
or CHM 123L	Organic Chemistry I Honors Lab	
CHM 223	Organic Chemistry II	3
CHM 223L	Organic Chemistry II Lab	1
CHM 280	College Chemistry II	3

CHM 280L	Theory and Methods of Quantitative Analysis Lab	1
CHM 324	Medicinal Chemistry I	3
CHM 324L	Medicinal Chemistry Laboratory	1.5
CHM 334	Chemical Analysis	4
CHM 334L	Chemical Analysis Lab	0
CHM 341	Physical Chemistry I	3
CHM 361	Inorganic Chemistry	3
CHM 361L	Inorganic Chemistry Lab	1
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 370L	Biochemistry Lab	1
or CHM 371L	Advanced Biochemistry Lab	
CHM 381	Chemistry Seminar and Literature	0.5
CHM 395	Senior Capstone	0.5
Select one of the following Options:		0-3
Option 1:		
CHM 390	Chemical Research Experience	
Option 2:		
Select no fewer than 1.5 hours of the following:		
CHM 391	Undergraduate Research	
CHM 392	Undergraduate Research	
Select one of the Medicinal Chemistry electives:		
CHM 321	Intermediate Organic Chemistry	3
CHM 373	Biochemistry II	3
CHM 376	Biophysical Chemistry	3
BIO 265	Cellular and Molecular Biology	3
Select one of the following:		3
CHM 321	Intermediate Organic Chemistry *	
CHM 342	Physical Chemistry II	
CHM 351	Special Topics in Chemistry	
CHM 362	Nanochemistry in Energy and Medicine	
CHM 364	Materials Chemistry	
CHM 366	Chemistry and Physics of Solid State Materials	
CHM 373	Biochemistry II *	
CHM 376	Biophysical Chemistry *	
Any chemistry graduate class (POI)		

### Co-Requirements

BIO 150	Biology I	3
MST 112	Calculus with Analytic Geometry II	4
PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	

\* Can only be used to fulfill this requirement if not also used to fill the medicinal chemistry elective requirement.

For the **B.S. major with concentration in medicinal chemistry and drug discovery**, the following schedule of chemistry and related courses is typical:

Code	Title	Hours
<b>First Year</b>		
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1
CHM 122	Organic Chemistry I	3
or CHM 123	Organic Chemistry I Honors	
CHM 122L	Organic Chemistry I Lab	1
or CHM 123L	Organic Chemistry I Honors Lab	
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
<b>Sophomore</b>		
BIO 150	Biology I	3
CHM 223	Organic Chemistry II	3
CHM 223L	Organic Chemistry II Lab	1
CHM 280	College Chemistry II	3
CHM 280L	Theory and Methods of Quantitative Analysis Lab	1
PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	
<b>Junior</b>		
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 370L	Biochemistry Lab	1
or CHM 371L	Advanced Biochemistry Lab	
CHM 381	Chemistry Seminar and Literature	0.5
<b>Junior or Senior</b>		
CHM 334	Chemical Analysis	4
CHM 334L	Chemical Analysis Lab	0
CHM 341	Physical Chemistry I	3
CHM 391	Undergraduate Research	0-3
or CHM 392	Undergraduate Research	
or CHM 390	Chemical Research Experience	
Medicinal Chemistry Elective		
<b>Senior</b>		
CHM 324	Medicinal Chemistry I	3
CHM 324L	Medicinal Chemistry Laboratory	1.5
CHM 361	Inorganic Chemistry	3
CHM 361L	Inorganic Chemistry Lab	1
CHM 395	Senior Capstone	0.5
Upper-level CHM elective		

## Honors

Qualified majors are considered for honors in chemistry. To be graduated with the designation "Honors in Chemistry," a student must have a minimum GPA in chemistry courses of 3.3 and a minimum overall GPA of 3.0. In addition, the honors candidate must satisfactorily complete an approved research project, prepare a paper describing the project, and present results at a seminar for departmental approval. Honors thesis research must be conducted on the Wake Forest University campus with a WFU Chemistry faculty member as research adviser or co-adviser. For

additional information, members of the departmental faculty should be consulted.

## Chemistry, B.A.

### Requirements

Requires a minimum of 34 hours in chemistry and must include the following courses:

Code	Title	Hours
<b>Required Major Courses</b>		
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1
CHM 122	Organic Chemistry I	3
or CHM 123	Organic Chemistry I Honors	
CHM 122L	Organic Chemistry I Lab	1
or CHM 123L	Organic Chemistry I Honors Lab	
CHM 280	College Chemistry II	3
CHM 280L	Theory and Methods of Quantitative Analysis Lab	1
CHM 334	Chemical Analysis	4
CHM 334L	Chemical Analysis Lab	0
CHM 341	Physical Chemistry I	3
CHM 341L	Physical Chemistry I Lab	1
CHM 361	Inorganic Chemistry	3
CHM 361L	Inorganic Chemistry Lab	1
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 370L	Biochemistry Lab	1
or CHM 371L	Advanced Biochemistry Lab	
Select two of the following:		6
CHM 223	Organic Chemistry II	
CHM 321	Intermediate Organic Chemistry	
CHM 324	Medicinal Chemistry I	
CHM 342	Physical Chemistry II	
CHM 351	Special Topics in Chemistry	
CHM 362	Nanochemistry in Energy and Medicine	
CHM 364	Materials Chemistry	
CHM 366	Chemistry and Physics of Solid State Materials	
CHM 373	Biochemistry II	
CHM 376	Biophysical Chemistry	
Select one of the following:		0-3
CHM 381	Chemistry Seminar and Literature	
CHM 390	Chemical Research Experience	
CHM 391	Undergraduate Research	
CHM 392	Undergraduate Research	
<b>Co-Requirements</b>		
MST 112	Calculus with Analytic Geometry II	4
PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	

PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	

For the **B.A. major**, the following schedule of chemistry and related courses is typical:

Code	Title	Hours
<b>First Year</b>		
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1
CHM 122	Organic Chemistry I	3
or CHM 123	Organic Chemistry I Honors	
CHM 122L	Organic Chemistry I Lab	1
or CHM 123L	Organic Chemistry I Honors Lab	
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
<b>Sophomore</b>		
CHM 280	College Chemistry II	3
CHM 280L	Theory and Methods of Quantitative Analysis Lab	1
PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	
<b>Junior or Senior</b>		
CHM 334	Chemical Analysis	4
CHM 334L	Chemical Analysis Lab	0
CHM 341	Physical Chemistry I	3
CHM 341L	Physical Chemistry I Lab	1
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 370L	Biochemistry Lab	1
or CHM 371L	Advanced Biochemistry Lab	
Select one of the following:		0-3
CHM 381	Chemistry Seminar and Literature	
CHM 390	Chemical Research Experience	
CHM 391	Undergraduate Research	
CHM 392	Undergraduate Research	
One upper-level CHM elective		
<b>Senior</b>		
CHM 361	Inorganic Chemistry	3
CHM 361L	Inorganic Chemistry Lab	1
Upper-level CHM elective		

*Variations in the schedules above are possible to accommodate study abroad and other special circumstances, in which case, the student should consult a member of the faculty in chemistry.*

## Honors

Qualified majors are considered for honors in chemistry. To be graduated with the designation "Honors in Chemistry," a student must have a minimum GPA in chemistry courses of 3.3 and a minimum overall GPA of 3.0. In addition, the honors candidate must satisfactorily complete an approved research project, prepare a paper describing the project, and

present results at a seminar for departmental approval. Honors thesis research must be conducted on the Wake Forest University campus with a WFU Chemistry faculty member as research adviser or co-adviser. For additional information, members of the departmental faculty should be consulted.

## Chemistry, B.S.

### Requirements

Requires 43-46 hours in chemistry and must include the following courses:

Code	Title	Hours
<b>Required Major Courses</b>		
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1
CHM 122	Organic Chemistry I	3
or CHM 123	Organic Chemistry I Honors	
CHM 122L	Organic Chemistry I Lab	1
or CHM 123L	Organic Chemistry I Honors Lab	
CHM 223	Organic Chemistry II	3
CHM 223L	Organic Chemistry II Lab	1
CHM 280	College Chemistry II	3
CHM 280L	Theory and Methods of Quantitative Analysis Lab	1
CHM 334	Chemical Analysis	4
CHM 334L	Chemical Analysis Lab	0
CHM 341	Physical Chemistry I	3
CHM 341L	Physical Chemistry I Lab	1
CHM 342	Physical Chemistry II	3
CHM 342L	Physical Chemistry II Lab	1
CHM 361	Inorganic Chemistry	3
CHM 361L	Inorganic Chemistry Lab	1
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 370L	Biochemistry Lab	1
or CHM 371L	Advanced Biochemistry Lab	
CHM 381	Chemistry Seminar and Literature	0.5
CHM 395	Senior Capstone	0.5
Select one of the following options:		0-3
Option 1:		
CHM 390	Chemical Research Experience	
Option 2:		
Select no fewer than 1.5 hours of the following:		
CHM 391	Undergraduate Research	
CHM 392	Undergraduate Research	
Select two of the following:		6
CHM 321	Intermediate Organic Chemistry	
CHM 324	Medicinal Chemistry I	
CHM 351	Special Topics in Chemistry	
CHM 362	Nanochemistry in Energy and Medicine	
CHM 364	Materials Chemistry	
CHM 366	Chemistry and Physics of Solid State Materials	

CHM 373	Biochemistry II	
CHM 376	Biophysical Chemistry	
Any chemistry graduate class (POI)		
<b>Co-Requirements</b>		
PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4

For the **B.S. major**, the following schedule of chemistry and related courses is typical:

Code	Title	Hours
<b>First Year</b>		
CHM 111	College Chemistry I	3
CHM 111L	College Chemistry I Lab	1
CHM 122	Organic Chemistry I	3
or CHM 123	Organic Chemistry I Honors	
CHM 122L	Organic Chemistry I Lab	1
or CHM 123L	Organic Chemistry I Honors Lab	
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
<b>Sophomore</b>		
CHM 223	Organic Chemistry II	3
CHM 223L	Organic Chemistry II Lab	1
CHM 280	College Chemistry II	3
CHM 280L	Theory and Methods of Quantitative Analysis Lab	1
PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	
MST 113	Multivariable Calculus	4
<b>Junior</b>		
CHM 341	Physical Chemistry I	3
CHM 341L	Physical Chemistry I Lab	1
CHM 342	Physical Chemistry II	3
CHM 342L	Physical Chemistry II Lab	1
CHM 381	Chemistry Seminar and Literature	0.5
<b>Junior or Senior</b>		
CHM 334	Chemical Analysis	4
CHM 334L	Chemical Analysis Lab	0
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 370L	Biochemistry Lab	1
or CHM 371L	Advanced Biochemistry Lab	
CHM 391	Undergraduate Research	0-3
or CHM 392	Undergraduate Research	
or CHM 390	Chemical Research Experience	
Upper-level CHM elective		

### Senior

CHM 361	Inorganic Chemistry	3
CHM 361L	Inorganic Chemistry Lab	1
CHM 395	Senior Capstone	0.5

Upper-level CHM elective

## Honors

Qualified majors are considered for honors in chemistry. To be graduated with the designation "Honors in Chemistry," a student must have a minimum GPA in chemistry courses of 3.3 and a minimum overall GPA of 3.0. In addition, the honors candidate must satisfactorily complete an approved research project, prepare a paper describing the project, and present results at a seminar for departmental approval. Honors thesis research must be conducted on the Wake Forest University campus with a WFU Chemistry faculty member as research adviser or co-adviser. For additional information, members of the departmental faculty should be consulted.

## Chemistry, Minor

### Requirements

Requires at least 19 hours in chemistry and must include at least one of:

Code	Title	Hours
CHM 321	Intermediate Organic Chemistry	3
CHM 324	Medicinal Chemistry I	3
CHM 334	Chemical Analysis	4
CHM 341	Physical Chemistry I	3
CHM 342	Physical Chemistry II	3
CHM 351	Special Topics in Chemistry	3
CHM 361	Inorganic Chemistry	3
CHM 362	Nanochemistry in Energy and Medicine	3
CHM 364	Materials Chemistry	3
CHM 366	Chemistry and Physics of Solid State Materials	3
CHM 370	Biochemistry I: Macromolecules and Metabolism	3
CHM 373	Biochemistry II	3
CHM 376	Biophysical Chemistry	3

No more than nine hours of chemistry courses completed elsewhere can be counted toward the minor, and a minimum grade point average of 2.0 in Wake Forest chemistry courses is required to complete the minor.

## Classics (CLA)

The Department of Classics offers four majors and three minors: majors in Classical Languages, Classical Studies, Greek, and Latin, and minors in Classical Studies, Greek, and Latin. An overall minimum GPA of 2.0 is required for graduation in courses that compose a major in the department.

**Major/minor combinations.** Within the department no more than six hours of major credit may also count toward a minor.

**Greek and Latin courses** at the 100-level may not be taken pass-fail. Any exception to the policy must arise from exceptional circumstances and must be approved by the Chair of the department.

## Contact Information

Department of Classic (<http://college.wfu.edu/classics/>)s (<http://classics.wfu.edu/>)

Tribble Hall C301, PO Box 7343

Phone 336-758-5330

## Programs

### Majors

- B.A. in Classical Languages
- B.A. in Classical Studies
- B.A. in Greek
- B.A. in Latin

### Minors

- Minor in Classical Studies
- Minor in Greek
- Minor in Latin

## Courses

### Classics (CLA)

#### CLA 151. Ethics in Greece and Rome. (1.5 h)

Reading and discussion of Aristotle's Ethics and Cicero's On Moral Duties, with attention to our own ethical dilemmas. A knowledge of the Greek and Latin languages is not required.

#### CLA 252. Women, Gender, and Sexuality in Antiquity. (3 h)

Exploration of women's roles in the ancient Mediterranean world and the intersections of gender, sexuality, and power in Greek and Roman society through the study of historical, archaeological, artistic, and literary sources, with a variety of theoretical and methodological approaches. A knowledge of the Greek and Latin languages is not required. (CD, D)

#### CLA 255. Classical Epic: Iliad, Odyssey, Aeneid. (3 h)

Study of the three principal epic poems from ancient Greece and Rome. A knowledge of the Greek and Latin languages is not required. (D)

#### CLA 259. Vergil and His English Legacy. (3 h)

Study of Vergil's "Eclogues," "Georgics," and selected passages of the "Aeneid," and their reception by English literature, using translations and original works by writers of the sixteenth through the eighteenth centuries, including Spenser, Marlowe, Milton, Dryden, and Pope. Knowledge of Latin is not required. (D)

#### CLA 261. Greek Myth. (3 h)

Consideration, principally through close study of selected literary works, of Greek myth from the Classical, Archaic, and Hellenistic periods, and in Roman literature; the course also will consider Greek myth's afterlife in the modern period. A knowledge of the Greek language is not required. (D)

#### CLA 263. Greek Tragedy. (3 h)

Study of the plays of Aeschylus, Sophocles, and Euripides. A knowledge of the Greek language is not required. (D)

#### CLA 264. Greek & Roman Comedy. (3 h)

Study of representative works of Aristophanes, Menander, Plautus, and Terence, with attention to the performance and audiences of comedy and to the differences among and within comic genres. A knowledge of the Greek and Latin languages is not required. (D)

#### CLA 272. A Survey of Latin Literature (in English). (3 h)

Study of selections from Latin literature in English translation. A knowledge of Latin language is not required. (D)

#### CLA 280. Topics in the Ancient Mediterranean World. (3 h)

Study of topics in the literary and material culture of the Greco-Roman World. (CD, D)

#### CLA 281. Classics Beyond Whiteness. (1.5, 3 h)

Studies misconceptions that ancient Greeks and Romans were white; race in Graeco-Roman societies; the role of Classics in modern racial politics; and non-white approaches to Classics. Considers race as social construct; white supremacy, fragility, and privilege; and critical-race-theoretical study of ancient cultures. (CD, D only with the 3-hour option)

#### CLA 374. Special Topics. (1.5-3 h)

Special topics in classical literature and culture. May be repeated for credit.

#### CLA 375. The Age of Pericles. (3 h)

Study of Greek culture in all its aspects during the 5th century. A knowledge of the Greek language is not required. (CD, D)

#### CLA 376. The Age of Augustus. (3 h)

Study of Roman culture in all its aspects during the early Empire. A knowledge of the Latin language is not required. (CD, D)

#### CLA 381. Seminar in Classical Studies. (3 h)

Offered by members of the faculty on topics of their choice. A knowledge of Greek and Latin languages is not required. May be repeated for credit. P-any previous course in Classics, Greek, or Latin, or POI.

#### CLA 388. Individual Study. (1.5, 3 h)

Course may be repeated for a total of 6 hours. P-POI.

#### CLA 391. Honors in Classical Studies. (1.5 h)

Directed research for the honors paper. P-POD.

#### CLA 392. Honors in Classical Studies. (1.5 h)

Directed research for the honors paper. P-POD .

## Greek (GRK)

#### GRK 111. Elementary Greek. (3 h)

Introduction to the language; provides a foundation for reading the ancient authors. P-POD.

#### GRK 112. Elementary Greek. (3 h)

Introduction to the language; provides a foundation for reading the ancient authors. P-POD.

#### GRK 113. Intensive Elementary Greek. (3 h)

Accelerated introduction to the language; provides a foundation for reading the ancient authors. Not open to students who have received credit GRK 111-112. C-GRK 113L.

#### GRK 113L. Intensive Elementary Greek Lab. (2 h)

Concentration on sight-reading and composition in Greek. Must be taken in the same semester as GRK 113.

#### GRK 153. Intermediate Greek. (3 h)

Review of grammar; readings in classical authors. P-Greek 112 or equivalent.

#### GRK 154. Intensive Intermediate Greek. (3 h)

Review of grammar in the context of reading classical authors. P - 113 or equivalent. C-GRK 154L.

#### GRK 154L. Intensive Intermediate Greek Lab. (2 h)

Concentration on sight-reading and composition in Greek. Must be taken in the same semester as GRK 154.



**GRK 201. Intermediate Greek. (3 h)**

Review of grammar; readings in classical authors. P-GRK 153.

**GRK 211. Introduction to Attic Prose. (3 h)**

Selections from the dialogues of Plato or other Attic prose. P-GRK 153, 154 or equivalent.

**GRK 312. Greek Poetry. (3 h)**

Selections from the Iliad and the Odyssey or from didactic and lyric poetry. P - Greek 211 or equivalent.

**GRK 321. Greek Readings. (1.5, 3 h)**

Designed to meet individual needs and interests. Course may be repeated for a total of six credit hours. P-POI.

**GRK 325. Advanced Grammar and Composition. (3 h)**

Intensive work in morphology and syntax, with practice in composition and stylistic analysis of selected readings. P-GRK 211 or equivalent.

**GRK 331. Greek Biblical Texts. (3 h)**

Selections from Greek Biblical texts. P-GRK 211 or equivalent.

**GRK 341. Greek Tragedy. (3 h)**

Close study of a selected tragedy or tragedies. P-GRK 211 or equivalent.

**GRK 342. Greek Comedy. (3 h)**

Close study of a selected comedy or comedies of Aristophanes or Menander. P-GRK 211 or equivalent.

**GRK 391. Honors in Greek. (1.5 h)**

Directed research for honors paper. P-POD.

**GRK 392. Honors in Greek. (1.5 h)**

Directed research for honors paper. P-POD.

## Latin (LAT)

**LAT 111. Elementary Latin. (3 h)**

Introduction to the language; provides a foundation for reading in the ancient authors.

**LAT 112. Elementary Latin. (3 h)**

Introduction to the language; provides a foundation for reading in the ancient authors.

**LAT 113. Intensive Elementary Latin. (3 h)**

An introduction to the language; the course covers the material of LAT 111 and LAT 112 in one semester. Not open to students who have had LAT 111 or LAT 112.

**LAT 113L. Intensive Elementary Latin Lab. (2 h)**

Concentration on sight-reading and composition in Latin. Must be taken in the same semester as LAT 113.

**LAT 120. Reading Medieval Latin. (1.5-3 h)**

Introduction to post-classical Latin with readings in selected works from late antiquity and the middle ages. P-LAT 112 or equivalent.

**LAT 153. Intermediate Latin. (3 h)**

Review of grammar and selected introductory readings. P-LAT 112, 113 or equivalent.

**LAT 153L. Intermediate Latin Lab. (2 h)**

Concentration on sight-reading and composition in Latin. Must be taken in the same semester as LAT 153.

**LAT 211. Introduction to Latin Poetry. (3 h)**

Readings from selected poets mainly of the late Republic and early Empire, with an introduction to literary criticism. P-LAT 153 or equivalent.

**LAT 212. Introduction to Latin Prose. (3 h)**

Readings primarily from the works of Cicero, with attention to their artistry and historical context. P-LAT 153 or equivalent.

**LAT 316. Roman Lyric Poetry. (3 h)**

Interpretation and evaluation of lyric poetry through readings from the poems of Catullus and Horace. P-LAT 211 or 212, or equivalent.

**LAT 318. Roman Epic Poetry. (3 h)**

Reading in the epics of Virgil and Ovid, with attention to their position in the epic tradition. P-LAT 211 or 212, or equivalent.

**LAT 321. Roman Historians. (3 h)**

Readings in the works of Sallust, Livy, or Tacitus, with attention to the historical background and the norms of ancient historiography. P-LAT 211 or 212, or equivalent.

**LAT 325. Roman Epistolography. (3 h)**

Selected readings from the correspondence of Cicero and Pliny the Younger and the verse epistles of Horace and Ovid. P-LAT 211 or 212, or equivalent.

**LAT 326. Roman Comedy. (3 h)**

Readings of selected comedies of Plautus and Terence, with a study of the traditions of comedy and dramatic techniques. P-LAT 211 or 212, or equivalent.

**LAT 331. Roman Elegy. (3 h)**

Readings from the poems of Tibullus, Propertius, and Ovid, with study of the elegiac tradition. P-LAT 211 or 212, or equivalent.

**LAT 341. Roman Satire. (3 h)**

Selected readings from Horace, Lucilius, Persius, or Juvenal, with attention to the origin and development of hexameter satire. P- LAT 211 or 212, or equivalent.

**LAT 343. Latin Readings. (1.5, 3 h)**

Designed to meet individual need and interests. Course may be repeated for a total of six credit hours. P-POI.

**LAT 350. Advanced Grammar and Composition. (3 h)**

Intensive work in morphology and syntax, with practice in composition and stylistic analysis of selected readings. P-LAT 211 or 212, or equivalent.

**LAT 360. Seminar in Latin Poetry. (3 h)**

Advanced study in selected poets and genres. A research paper is required. P-LAT 211 or 212, or equivalent.

**LAT 380. Seminar in Latin Prose. (3 h)**

Advanced study in selected authors and topics. A research paper is required. P-LAT 211 or 212, or equivalent.

**LAT 391. Honors in Latin. (1.5 h)**

Directed research for the honors paper. P-POD.

**LAT 392. Honors in Latin. (1.5 h)**

Directed research for the honors paper. P-POD.

**LAT 555. Latin Literature. (3 h)**

## Faculty

**Chair** Mary L.B. Pendergraft

**Professor** Mary L.B. Pendergraft

**Associate Professors** T.H.M. Gellar-Goad, John M. Oksanish, Michael C. Sloan

**Assistant Professor** Amy K. Lather

**Associate Teaching Professor** Brian M. Warren

**Visiting Assistant Professor** John K. Schafer

## Classical Languages, B.A. Requirements

Requires at least 27 hours in the Department.

For students emphasizing Latin the following are required:

Code	Title	Hours
<b>Required Major Courses</b>		
Select four courses in Latin beyond 153 *		12
Select 12 hours in Greek including at least one course above 154		12
Select one additional course in CLA, GRK, or LAT numbered 200 or above		3

\* *Three must be at the 300-level and include LAT 350.*

For students emphasizing Greek the following are required:

Code	Title	Hours
<b>Required Major Courses</b>		
Select four courses in Greek beyond 154 *		12
Select 12 hours in Latin including at least one course above 153		12
Select one additional course in CLA, GRK, or LAT numbered 200 or above		3

\* *Three must be at the 300-level.*

## Honors

Highly qualified majors are invited by the department to participate in the honors program in Latin, Greek, or Classical Studies. To be graduated with the designation "Honors in Latin," "Honors in Greek," or "Honors in Classical Studies," a student must complete an honors research project and pass a comprehensive oral examination. For additional information, members of the departmental faculty should be consulted. (Refer to the section "Honors Study" in this bulletin for minimum college requirements.)

## Classical Studies, BA Requirements

Requires 30 hours. A minimum of 24 hours must be taken in the department. The following are required:

Code	Title	Hours
One 200-level course in Greek or Latin *		3
CLA 375	The Age of Pericles	3
CLA 376	The Age of Augustus	3
CLA 381	Seminar in Classical Studies	3

\* *Prerequisites to this course do not count toward the 30 required hours.*

Other courses may be substituted by permission of the department.

## Honors

Highly qualified majors are invited by the department to participate in the honors program in Latin, Greek, or Classical Studies. To be graduated

with the designation "Honors in Latin," "Honors in Greek," or "Honors in Classical Studies," a student must complete an honors research project and pass a comprehensive oral examination. For additional information, members of the departmental faculty should be consulted. (Refer to the section "Honors Study" in this bulletin for minimum college requirements.)

## Classical Studies, Minor Requirements

Requires a minimum of 18 hours in the department.

Code	Title	Hours
<b>Required Courses</b>		
CLA 375	The Age of Pericles	3
or CLA 376	The Age of Augustus	
CLA 381	Seminar in Classical Studies	3

## Greek, B.A. Requirements

Requires 27 hours in the department beyond GRK 112 or GRK 113.

Code	Title	Hours
Select 24 hours in Greek		24
Select one more course in CLA, GRK, or LAT		3

## Honors

Highly qualified majors are invited by the department to participate in the honors program in Latin, Greek, or Classical Studies. To be graduated with the designation "Honors in Latin," "Honors in Greek," or "Honors in Classical Studies," a student must complete an honors research project and pass a comprehensive oral examination. For additional information, members of the departmental faculty should be consulted. (Refer to the section "Honors Study" in this bulletin for minimum college requirements.)

## Greek, Minor Requirements

Requires 15-17 hours:

Code	Title	Hours
GRK 153	Intermediate Greek	3
Or		
GRK 154 & 154L	Intensive Intermediate Greek and Intensive Intermediate Greek Lab	5
Select two 200 or 300 level courses in Greek		6
Select two additional courses in CLA, GRK (300-level), or LAT		6

## Latin, B.A. Requirements

Requires 27 hours in the department beyond LAT 153.

Code	Title	Hours
Select 21 hours in Latin		21
LAT 350	Advanced Grammar and Composition	3
Select one additional course in CLA, GRK, or LAT		3

## Honors

Highly qualified majors are invited by the department to participate in the honors program in Latin, Greek, or Classical Studies. To be graduated with the designation "Honors in Latin," "Honors in Greek," or "Honors in Classical Studies," a student must complete an honors research project and pass a comprehensive oral examination. For additional information, members of the departmental faculty should be consulted. (Refer to the section "Honors Study" in this bulletin for minimum college requirements.)

## Latin, Minor Requirements

Requires 15 hours:

Code	Title	Hours
Select three 200- or 300-level courses in Latin		9
Select two additional courses in CLA, GRK, or LAT (300-level)		6

## Communication (COM)

The Communication Department studies the phenomenon of human communication in all its aspects. We support a liberal arts approach to communication through scholarship, creative production, and teaching in six concentrations: a general concentration, communication science, health communication, integrated communication strategies, media studies, and public advocacy. Our goal for undergraduate majors and minors is to prepare them for the responsibilities of citizenship and for the many career paths in which knowledge of communication is a critical asset.

## Contact Information

Communication Department (<http://college.wfu.edu/communication/>)  
Carswell Hall 117, Box 7347  
Phone 336-758-5405

## Programs Major

- B.A. in Communication

## Minor

- Minor in Communication

## Courses

### Communication (COM)

#### COM 100. Introduction to Communication and Rhetoric. (1.5 h)

An introduction to the theories, research, and analysis of verbal and nonverbal processes by which human beings share meanings and influence one another. (D)

#### COM 102. Debate and Advocacy. (3 h)

The use of argumentative techniques in oral advocacy: research, speeches, and debate. (D)

#### COM 110. Public Speaking. (3 h)

A study of the theory and practice of public address. Lab experiences in the preparation, delivery, and critique of informative and persuasive speeches. (D)

#### COM 113. Relational Communication. (3 h)

Introduction to relational communication theory, research and principles. (D)

#### COM 120. Introduction to Film and Media Aesthetics. (3 h)

Introduction to the major theories and aesthetics of motion pictures and other media forms through a study of styles related to writing, directing, cinematography, editing, and sound. (D)

#### COM 215. Broadcast Journalism. (3 h)

An introduction to the theory and practice of broadcast journalism. Topics will include ethics, technology, and the media as industry, and projects will address writing, producing, and performing for radio and television. Also listed as JOU 355.

#### COM 220. Empirical Research in Communication. (3 h)

An introduction to methodological design and univariate statistics as used in communication research. (QR)

#### COM 225. Rhetorical Theory and Criticism. (3 h)

Introduces students to the historical and critical analysis of rhetoric. Examines current methods of rhetorical criticism with a view to researching and composing a critical paper in the field.

#### COM 230. Interactive Digital Media. (3 h)

Theoretical and applied study of new digital technologies. Students produce a short-form interactive media project. Offered only in Salamanca.

#### COM 245. Introduction to Mass Communication. (3 h)

A historical survey of mass media and an examination of major contemporary media issues. (D)

#### COM 247. Media Production I. (3 h)

Students produce a variety of short-form media projects. P-COM 120.

#### COM 250. Communication in Entrepreneurial Settings. (3 h)

This course examines work in the gig economy, including freelancing, mobile work, co-working, and precarious work, and the role that communication plays in this work and related experiences.

#### COM 262. Writing for Public Relations and Advertising. (3 h)

Principles and techniques of public relations and applied advertising. Students use case studies to develop public relations and advertising strategies. Also listed as JOU 350. (D)

#### COM 270. Special Seminar. (1-3 h)

An examination of selected topics in communication.

#### COM 280. Communication Internship I. (1.5-3 h)

Individual communication internships to be approved, supervised, and evaluated by an appropriate faculty adviser. Pass/Fail only. P-POI.

#### COM 282. Debate Practicum I. (1.5 h)

Individual projects in debate to be approved, supervised and evaluated by an appropriate faculty adviser. Pass/Fail only. P-POI.

#### COM 283. Debate Practicum II. (1.5 h)

Individual projects in debate to be approved, supervised and evaluated by an appropriate faculty adviser. Pass/Fail only. P-POI.

**COM 284. Production Practicum I. (1.5 h)**

Individual projects or collaborations with appropriate professionals in media production to be approved, supervised, and evaluated by a faculty advisor. Pass/Fail only. P-POI.

**COM 285. Production Practicum II. (1.5 h)**

Individual projects or collaborations with appropriate professionals in media production to be approved, supervised, and evaluated by a faculty advisor. Pass/Fail only. P-POI.

**COM 286. Individual Study. (1-3 h)**

Directed study in an area of interest to be approved and supervised by a faculty adviser. P-POI.

**COM 287. Research Practicum I. (1.5 h)**

Credit opportunities for students to collaborate with faculty on research projects. Awards credit to students assisting faculty with research initiatives led by the faculty. Projects may be short term, culminating in presentation or publication, or longitudinal, where the student participates in an on-going effort. Pass/Fail only. P-POI.

**COM 288. Research Practicum II. (1.5 h)**

Credit opportunities for students to collaborate with faculty on research projects. Awards credit to students assisting faculty with research initiatives led by the faculty. Projects may be short term, culminating in presentation or publication, or longitudinal, where the student participates in an on-going effort. Pass/Fail only. P-POI.

**COM 300. Classical Rhetoric. (3 h)**

A study of major writings in Greek and Roman rhetorical theory from the Sophists to Augustine.

**COM 302. Argumentation Theory. (3 h)**

An examination of argumentation theory and criticism; examines both theoretical issues and social practices.

**COM 303. Directing the Forensic Program. (1.5, 3 h)**

A pragmatic study of the methods of directing high school and college forensics with work in the High School Debate Workshop.

**COM 304. Freedom of Speech. (3 h)**

An examination of the philosophical and historical traditions, significant cases, and contemporary controversies concerning freedom of expression.

**COM 305. Communication and Ethics. (3 h)**

A study of the role of communication in ethical controversies.

**COM 307. The Prophetic Mode in American Public Discourse. (3 h)**

Investigates prophetism as a rhetorical act by examining Biblical forms of prophetic speech and investigating how these forms influence American public discourse.

**COM 308. Speechwriting. (3 h)**

Examines representative historic and contemporary speechwriting, including composition and delivery of ceremonial, legal, and political speeches. Builds practical knowledge through delivery, discussion, and interviews with professional speechwriters.

**COM 309. Visual Storytelling. (3 h)**

The course overviews digital media as well as studying the meaning of how visual images are used in our society. The course is designed to look at the changing landscape of visual storytelling.

**COM 310. Media Production II. (3 h)**

Students produce advanced media projects over which they assume significant creative control. P-COM 247.

**COM 312. Film History to 1945. (3 h)**

A survey of the developments of motion pictures to 1945. Includes lectures, readings, reports, and screenings.

**COM 313. Film History Since 1945. (3 h)**

A survey of the development of motion pictures from 1946 to the present day. Includes lectures, readings, reports, and screenings.

**COM 314. Media Effects. (3 h)**

Theory and research on the influence and effects of mass media on audiences. These include reception, cognitive processing, and attitudinal and behavioral influences.

**COM 315. Communication and Technology. (3 h)**

An exploration of how communication technologies influence the social, political, and organizational practices of everyday life.

**COM 316. Screenwriting. (3 h)**

Introduction to the art and practice of writing for the screen. Through numerous exercises, students learn to use experiences, observations, and imagination to create compelling characters and stories for a variety of mediums and complete an original, short screenplay.

**COM 317. Communication and Popular Culture. (3 h)**

Explores the relationship between contemporary media and popular culture from a cultural studies perspective using examples from media texts.

**COM 318. Culture and Sitcom. (3 h)**

Explores the intersection of American culture and the television situation comedy, one of the oldest and most ubiquitous forms of television programming.

**COM 319. Media Ethics. (3 h)**

Examines historical and contemporary ethical issues in the media professions within the context of selected major ethical theories while covering, among other areas, issues relevant to: journalism, advertising, public relations, filmmaking, and media management.

**COM 320. Media Theory and Criticism. (3 h)**

Critical study of media including a survey of major theoretical frameworks. P-COM 120.

**COM 321. Communication Technology and Entrepreneurship. (3 h)**

Explores how an e-commerce business plan can be developed and the specific ways of marketing e-commerce ventures including the options provided by new tools such as social networking applications. Also listed as ENT 340.

**COM 322. Video Game Theory and Research. (3 h)**

Examines recent theory and research regarding the uses, processing, and effects of video games.

**COM 323. Superheroes, Cinema, and American Mythology. (3 h)**

Examines the emergence of superhero films in American cinema as a representation and response to historical and ideological contexts.

**COM 324. Children and Media. (3 h)**

Investigates theory and research in media and child development in order to explore how children and adolescents process and are affected by electronic media from television to new media.

**COM 325. On Camera Performance. (3 h)**

Introduces the theory and practice of performing for the camera. Covers basic camera, commercial work, how-to videos, newscasting, and other performance formats.

**COM 326. Advanced Screenwriting. (3 h)**

An advanced approach to narrative theory as well as examination of the role of the screenwriter in the motion picture industry, the influence of film genre on screenwriting, and the politics of nontraditional narrative structures. Students are expected to complete an original, feature-length screenplay. P-COM 316.

**COM 327. Social Media Effects. (3 h)**

Explores how we use, make sense of and are affected by social media both intrapersonally and interpersonally. Traditional media and information processing theories are explored; recent research on social media effects is discussed.

**COM 329. The Arab-Israeli-Palestinian Conflict as a Communication Phenomenon. (3 h)**

Explores the evolution of the Arab-Israeli-Palestinian conflict as a communication phenomenon; focusing on the narratives of the parties to the conflict as viewed through the lens of extant communication-grounded conflict theory.

**COM 330. Communication and Conflict. (3 h)**

A review of the various theoretical perspectives on conflict and negotiation as well as methods for managing relational conflict.

**COM 331. Communication and Terrorism. (3 h)**

Examines domestic and international terrorism as grounded in extant communication theory, with emphasis on explicating the role that communication plays in current conceptualizations and responses to terrorism.

**COM 332. Sports, Culture, and Society. (3 h)**

Examines how sport media coverage frames our understanding of society's biggest social issues, including race, gender, and human rights and challenges students to find their voices on these issues through participatory exercises and production projects.

**COM 333. Business of Sports Media. (3 h)**

Examines the intersection of media content, production and business practices, and examines how the digital revolution is changing the game for content creators, leagues and teams.

**COM 334. Narrative Approaches to Entrepreneurship. (3 h)**

Students will examine how entrepreneurship is constructed in and through stories, with attention to diverse and alternative stories. Students will research, write, and publish an entrepreneur profile.

**COM 335. Survey of Organizational Communication. (3 h)**

An overview of the role of communication in constituting and maintaining the pattern of activities that sustain the modern organization.

**COM 336. Organizational Rhetoric. (3 h)**

Explores the persuasive nature of organizational messages—dealing with risk, reputation, image, legitimacy and strategic communication—including those exchanged between organizational members and those presented in behalf of the organization as a whole.

**COM 337. Social Media Marketing in the Creative Arts. (3 h)**

Explores how social media is changing not just what content creators produce, but also how creators engage with their audience through the use of social media and marketing techniques.

**COM 338. African-American Rhetoric. (3 h)**

This course explores how African Americans have invented a public voice in the twentieth century. The course focuses on how artistic cultural expression, in particular, has shaped black public speech. (CD)

**COM 339. Practices of Citizenship. (3 h)**

Explores the history and theory of citizenship as a deliberative practice linked to the rhetorical tradition of communication with an emphasis on participatory and deliberative skills as part of the process in which communities are formed and citizens emerge as members.

**COM 340. Democracy, Slavery and Sex: Emancipation Discourse from the Founding to the Civil War. (3 h)**

Examines the influence of emancipation movements on American public discourse by reading and analyzing original speeches and documents with emphasis on abolition of slavery and woman's rights.

**COM 341. Class, Race, Sex and War: Emancipation Discourse from the Civil War to the Second Wave of Feminism. (3 h)**

Examines the influence of emancipation movements on American public discourse by reading and analyzing original speeches and documents. Among the movements addressed are labor, civil rights, student protest, and women's liberation.

**COM 342. Political Communication. (3 h)**

Study of electoral communication, including candidate and media influences on campaign speeches, debates, and advertising.

**COM 343. Presidential Rhetoric. (3 h)**

Examines theory and practice of speechmaking and mediated presidential communication.

**COM 344. Conspiracy Theories in American Public Discourse. (3 h)**

Study of the role of conspiracy discourse in American public discourse from the nation's founding through modern events.

**COM 345. Rhetoric of Science and Technology. (3 h)**

Examination of how scientific and technological discourses function rhetorically in public arenas to affect non-scientific publics' understanding.

**COM 346. Sport, Media, and Communication. (3 h)**

Examines the role of sport in society, cultural, and institutional practice. Surveys the value represented by interpersonal and mediated messages regarding key dimensions of sport including competition, ethics, gender, and race.

**COM 347. Rhetoric of the Law. (3 h)**

Examination of legal discourses including trial and appeal processes through motions to closing arguments.

**COM 348. Legal Theory, Practice, and Communication. (3 h)**

Introduces students to legal education, the legal system and legal analysis. (Co-taught by Law and Communication faculty - summer)

**COM 349. Advocacy, Debate and the Law. (3 h)**

Students develop and critique speeches, debates, trial practice and moot court across a variety of legal speaking venues. (Co-taught by Law and Communication Faculty - summer).

**COM 350. Intercultural Communication. (3 h)**

Introduction to the study of communication phenomena between individuals and groups with different cultural backgrounds. (CD)

**COM 351. Comparative Communication. (1.5, 3 h)**

A comparison of communicative and linguistic processes in one or more national cultures with those of the United States. Also listed as LIN 351 and INS 349. Credit not given for both COM 351A and INS 349. (CD)

**COM 351A. Comparative Communication: Japan. (1.5, 3 h)**

**COM 351B. Comparative Communication: Russia. (1.5, 3 h)**

**COM 351C. Comparative Communication: Great Britain. (1.5, 3 h)**

**COM 351D. Comparative Communications: Multiple Countries. (1.5, 3 h)**

**COM 351E. Comparative Communication: China. (1.5, 3 h)**

**COM 352. Interpersonal Seminar. (3 h)**

Advanced study of theories and research in one or more of the specialized concentrations of interpersonal communications.

**COM 353. Persuasion. (3 h)**

An examination of theories and research concerning the process of social influence in contemporary society.

**COM 354. International Communication. (3 h)**

An in-depth look at the role of mass media in shaping communication between and about cultures using examples from traditional and emerging media systems. (CD)

**COM 355. Survey of Health Communication. (3 h)**

An examination of theories, research, and processes of health communication in contemporary society.

**COM 356. Health Communication: Patient-Provider. (3 h)**

Explores contemporary issues related to communication in health care contexts, notably theories and research on patient-provider communication.

**COM 357. Health Communication and Bioethics. (3 h)**

Examination of the principles behind designing, implementing, and evaluation a health campaign, including message design and application of media theories for behavior change.

**COM 358. Health Communication and Bioethics. (3 h)**

Examination of the problems of justice in health care and the meaning of human dignity in the face of illness and the technologies of treatment.

**COM 360. Communication and Cultures of India: Immersed in India. (3 h)**

Examines the different patterns of communication of the people of India through an immersive experience, a journey from the Himalayas to the oceans, studying the connections between the geography, history, and cultures of India.

**COM 361. Family Communication and Health across the Lifespan. (3 h)**

Investigates how family communication intersects with physical, psychological, and social health across the lifespan.

**COM 365. Imagination Project. (3 h)**

The production of short films, digital study guides, or E-books and/or other types of multimedia materials on important social, political, cultural and economic issues. Opportunities for students to immerse themselves in a topic and interact with scholars from various disciplines (topics vary each year).

**COM 370. Special Topics. (1-3 h)**

An examination of topics not covered in the regular curriculum.

**COM 380. Great Teachers. (1-3 h)**

An intensive study of the ideas of three noted scholars and teachers in the field of communication. Students will interact with each teacher during a two- to three-day visit to Wake Forest.

## Faculty

**Chair** Steven M. Giles

**Associate Chair** Marina Krcmar

**University Distinguished Chair in Communication Ethics and Professor**

Michael J. Hyde

**Larry J. and LeeAnn E. Merlo Presidential Chair in Communication and Entrepreneurship and Associate Professor** Rebecca Gill

**Professors** Mary M. Dalton, Sandra Dickson, Michael David Hazen, Woodrow Hood, Marina Krcmar, Allan D. Louden, Ananda Mitra, Randall G. Rogan

**Associate Professors** Robert J. Atchison, Steven M. Giles, John T. Llewellyn, Jennifer Johnson Priem, Alessandra Von Burg, Ron Von Burg, Margaret D. Zulick

**Assistant Professor** Mollie Rose Canzona

**Full Professor of the Practice** Justin Green (Head Debate Coach)

**Associate Teaching Professor** T. Nathaniel French

**Assistant Professors of the Practice** S. Cagney Gentry, Amber E. Kelsie (Associate Debate Coach)

**Assistant Teaching Professor** Katharine (Polly) A. Black, Rowena Rowie J.L. Kirby-Straker

**Visiting Assistant Professors** Thomas G. Southerland

**Manager of Communication/Media Laboratory** Ernest S. Jarrett

**Affiliated Teaching Professors** Peter Gilbert, Cara Pilson

**Adjunct Professor of the Practice (Bioethics)** Richard Robeson

## Communication, B.A.

Requires 30 hours, at least 12 of which must be at the 300-level. All majors should begin their study of communication with these courses.

Code	Title	Hours
<b>Required Major Courses</b>		
COM 102 or COM 110	Debate and Advocacy Public Speaking	3
COM 220	Empirical Research in Communication	3
COM 225	Rhetorical Theory and Criticism	3

An overall minimum GPA of 2.0 in all communication courses attempted is required for graduation.

The Department of Communication offers its majors the opportunity to concentrate in special areas of study. Communication majors may choose to concentrate in Communication Science, Media Studies, Public Advocacy, Integrated Communication Strategies, or Health Communication. Students may also opt to choose courses across the concentrations as a general communication major.

In addition to the major course requirements, COM 102 or COM 110, COM 220, and COM 225, students who want to declare a concentration must successfully complete five courses within a particular concentration. Students may declare two concentrations within the department. The major course requirements remain in effect for those students, and they must take a minimum of 18, rather than 12 hours at the 300-level. Students may not count courses used to meet the required five courses within a particular concentration to fulfill requirements for a second concentration. A list of courses approved to fulfill the concentrations in Communication Science, Media Studies, Public Advocacy, Integrated Communication Strategies, and Health Communication is maintained by the Communication Department. Students declaring a concentration must do so prior to the beginning of their final semester.

COM 280 is open to majors and minors only who satisfy departmental requirements. For three hours of internship credit, students need a minimum of 120 on-site contact hours; applications for internship hours need to be approved by a faculty supervisor and the internship director, or the director of undergraduate studies. Only three hours can

count toward a major or minor. Students may enroll in up to three hours of practicum in any semester. Practicum hours need to be approved by supervising faculty. Students can earn a maximum of six hours practicum, only three hours of which may be counted toward a major or minor in communication.

## Honors

Highly qualified majors are invited by the department to apply for admission to the honors program in communication. To be graduated with the designation "Honors in Communication," students must have a major GPA of 3.8 or above prior to entering their final semester, declare for honors by the week before the last add/drop date, select a paper or creative work and faculty member to work with, submit the final version of paper or creative work to the Undergraduate Committee for acceptance by the Committee and, if accepted, present the work at the award ceremony of the Department of Communication.

## Communication, Minor Requirements

The minor requires 18 hours.

Code	Title	Hours
<b>Required Courses</b>		
COM 102 or COM 110	Debate and Advocacy Public Speaking	3
COM 220 or COM 225	Empirical Research in Communication Rhetorical Theory and Criticism	3
Select at least three courses at the 300-level		

An overall minimum GPA of 2.0 in all communication courses attempted is required for graduation.

COM 280 is open to majors and minors only who satisfy departmental requirements. For three hours of internship credit, students need a minimum of 120 on-site contact hours; applications for internship hours need to be approved by a faculty supervisor and the internship director, or the director of undergraduate studies. Only three hours can count toward a major or minor. Students may enroll in up to three hours of practicum in any semester. Practicum hours need to be approved by supervising faculty. Students can earn a maximum of six hours practicum, only three hours of which may be counted toward a major or minor in communication.

## Computer Science (CSC)

A minimum GPA of 2.0 in the computer science courses that comprise a major or minor in the department is required for graduation.

Students who are enrolled at Wake Forest University may not take courses in computer science at other institutions to satisfy divisional requirements.

Students with a special interest in multidisciplinary work should consider a program of study that combines computer science with another discipline through either a double major or a minor.

## Planning for a Major or Minor in Computer Science

Students do **not** need prior computer science experience to major in computer science. While not required, students interested in the major are encouraged to:

- take CSC 111 and MST 117 in their freshman year. Students with appropriate experience or AP scores may skip CSC 111 and go straight to CSC 112. Credit is given for CSC 111 with an AP score of 5. With an AP score of 4, students may skip CSC 111 but will not receive credit.
- take CSC 112 and CSC 201 as early as feasible. Completing these courses in the sophomore year provides the most flexibility in scheduling other required courses and electives. While not necessary, completing CSC 111, CSC 112, CSC 201, and MST 117 by the end of the fall semester of the sophomore year provides the best flexibility, especially for the BS.
- consider taking another 200-level course in the sophomore year. Reviewing prerequisites for the 300-level electives may help in the decision regarding which 200-level courses to take early. For example, CSC 250 and CSC 251 are prerequisites for CSC 348.

To declare a major or minor in computer science, the student must complete CSC 111 or CSC 112 with a grade of at least a C or receive credit through AP Computer Science by passing the exam with a score of 5.

## Transfer Credit

A maximum of 7 hours at the 200-level or above may be transferred toward the BA or BS in computer science, with a maximum of 3 hours at the 300 level. For the computer science minor, all computer science electives at 193-level and above must be taken at Wake Forest.

## Contact Information

Department of Computer Science (<http://college.wfu.edu/cs/>)  
Manchester Hall 233, Box 7311  
Phone 336-758-4982

## Programs Majors

- B.S. in Computer Science
- B.A. in Computer Science

## Minor

- Minor in Computer Science

## Courses

### Computer Science (CSC)

#### CSC 101. Overview of Computer Science. (3 h)

An introduction to fundamental principles of computer science including abstraction, data and information, the World Wide Web, algorithms, programs, creative computer use, and the global impact of computing. Students cultivate their understanding by working with data, logically solving problems individually and collaboratively, and writing simple computer programs. May not be counted towards the computer science major or minor. (D)

**CSC 102. Problem Solving with Python. (3 h)**

An introduction to fundamental principles of computer science including abstraction, data and information, algorithm development, and computer programming. Students apply computational problem solving skills to representative problems from a range of domains using the Python programming language. Appropriate for students who want computing experience applicable to other disciplines. May not be counted towards the computer science major or minor. (D)

**CSC 111. Introduction to Computer Science. (4 h)**

Introduction to computer programming and algorithmic problem solving in an object-oriented programming language. Topics include basic control structures, methods, parameters, objects, classes, arrays, and program testing and debugging. Recommended as the first course for students considering a major or minor in computer science. (D)

**CSC 112. Fundamentals of Computer Science. (4 h)**

A study of algorithm development and problem solving using top-down design, data abstraction, object-oriented programming, and program debugging and testing. Topics include memory allocation, recursion, data structures such as arrays, lists, stacks, queues, and trees, simple sorting and searching algorithms, and algorithm complexity. P-CSC 111 or POI. (D)

**CSC 165. Problem Solving Seminar. (1 h)**

A weekly seminar designed for students to develop their problem solving skills designing and implementing software. Does not count towards the computer science major or minor. May be taken twice. Pass/Fail. P-CSC 112 or POI.

**CSC 191. Special Topics. (1-3 h)**

Topics in computer science that are not covered in regular courses or that give special practice in skills used in other courses. Not to be counted toward the bachelor of science in computer science. May be repeated for up to 6 hours if the topic changes.

**CSC 192. STEM Incubator. (1 h)**

An engaging and relevant introduction to STEM (science, technology, engineering, and mathematics) through creative exploration, collaboration, and computational problem-solving. Pass/Fail. May be repeated once.

**CSC 192H. Honors STEM Incubator. (1 h)**

Leadership role in developing STEM (science, technology, engineering, and mathematics) ideas and applications through scientific exploration, creative collaboration, and computational problem-solving. For students with some programming experience. Pass/Fail. May be repeated once. P - POI.

**CSC 193. Independent Study. (1-3 h)**

A course of independent study directed by a faculty adviser, not to be counted toward the bachelor of science in computer science. May be repeated for up to 3 hours. Enrollment requires prearrangement with a computer science faculty member and departmental approval P-POI.

**CSC 201. Data Structures and Algorithms. (3 h)**

A study of fundamental data structures and the algorithms that act upon them. Data structure topics include the application, implementation, and complexity analysis of trees, hash tables, heaps, maps, sets, and graphs. Algorithmic topics include advanced sorting and searching methods and an introduction to divide-and-conquer and greedy techniques, graph algorithms, backtracking, and dynamic programming. P-CSC 112 and MST 117. (D)

**CSC 211. Computer Organization. (4 h)**

Lecture and laboratory. Computer organization from the perspective of instructions, including the central processor, buses, input and output units, and memory units. A weekly two-hour laboratory covers combinational logic, loaders and linkers, assembly language, address computation, and other architecture-related functions. Lab-2 hours. P-CSC 111. (D)

**CSC 221. Data Structures and Algorithms I. (3 h)**

Analysis, implementation, and application of abstract data structures such as lists, stacks, queues, trees, hash tables, heaps, and graphs. Complexity analysis of algorithms that operate upon these structures. P-CSC 112. P or C-MST 117. (D)

**CSC 222. Data Structures and Algorithms II. (3 h)**

Study of algorithms, algorithm design strategies, and the derivation of time complexity bounds. Case studies illustrate greedy algorithms, divide and conquer, backtracking, and dynamic programming techniques. An introduction to the classes P, NP, NP-complete, and Turing decidability is included. P-CSC 221 and MST 111 or 112. (QR)

**CSC 231. Programming Languages. (3 h)**

Comparative study of programming language paradigms, including imperative languages, functional programming, logic programming, and object-oriented programming. Syntax, semantics, parsing, grammars, and issues in language design are covered. P-CSC 112 and MST 117.

**CSC 241. Computer Systems. (4 h)**

Lecture and laboratory. Introduction to concepts of operating systems and networks including processor and memory management, concurrency, and protocol independent data communications. Lab-2 hours. P-CSC 112 and MST 117.

**CSC 250. Computer Systems I. (4 h)**

Study of computer system mechanisms supporting program execution, with a focus on mapping programs to underlying hardware. Topics include data representation, assembly language, processor architecture, and the memory system, with an introduction to system-level programming. P-CSC 112 and MST 117. (D)

**CSC 251. Computer Systems II. (3 h)**

Study of computer system mechanisms supporting program execution, with a focus on process and resource management. Topics include process control, virtual memory, concurrency, parallelism, file-based and network-based I/O, and additional coverage of system-level programming. P-CSC 250.

**CSC 301. Algorithm Design and Analysis. (3 h)**

A study of techniques for designing algorithms, analyzing their time and space complexity, and demonstrating their correctness. The algorithm design techniques include divide-and-conquer, greedy algorithms, dynamic programming, randomized algorithms, string processing algorithms, and parallel algorithms. The algorithm analysis includes computational models, best/average/worst case analysis, and computational complexity (including lower bounds and NP-completeness). P-CSC 201 and MST 112. (QR)

**CSC 311. Computer Architecture. (3 h)**

An in-depth study of computer system and architecture design. Topics include processor design, memory hierarchy, external storage devices, interface design, and parallel architectures. P-CSC 211 or 250.

**CSC 321. Database Management Systems. (3 h)**

Introduction to database management systems. Topics include data independence, database models, query languages, security, integrity, and transactions. P-CSC 201 or 221.



**CSC 322. Data Management and Analytics. (3 h)**

Management, analysis, and visualization of large-scale data sets. Topics include key-value databases, distributed file systems, map-reduce techniques, similarity measures, link analysis, and clustering. P-CSC 321.

**CSC 331. Software Engineering. (3 h)**

Study of fundamental topics in software engineering including software processes, agile software development and project management, requirements engineering, system modeling, design patterns and implementation, and software testing. Students practice software engineering principles through team projects. P-CSC 201 or 221.

**CSC 332. Mobile and Pervasive Computing. (3 h)**

Study of the fundamental design concepts and software principles underlying mobile and pervasive computing, including mobile interface design, data management, mobile networks, location aware computing, and mobile security. Involves significant programming on modern mobile platforms. P-CSC 201 or 221.

**CSC 333. Principles of Translators for Compilers and Interpreters. (3 h)**

Study of techniques for translating high-level programming languages to a target language. Typical target languages include Java bytecode and assembly language. Topics include lexical analysis, parsing, intermediate representations, language semantics, code generation, and optimization. P-CSC 231 and either CSC 211 or 250.

**CSC 341. Operating Systems. (3 h)**

Study of the different modules that compose a modern operating system. In-depth study of concurrency, processor management, memory management, file management, and security. P-CSC 241 or 251.

**CSC 343. Internet Protocols. (3 h)**

Study of wide area connectivity through interconnection networks. Emphasis is placed on Internet architecture and protocols. Topics include addressing, routing, multicasting, quality of service, and network security. P-CSC 241 or 251.

**CSC 346. Parallel Computation. (3 h)**

Study of techniques for parallel and high performance computing. Topics include an overview of modern high-performance computer design, pipelining, concurrency, data dependency, shared memory, message passing, and graphics processors. Select parallel algorithms and methods for asymptotic scalability analysis are also presented. Assignments may include coding with OpenMP, MPI, and the CUDA library. P-CSC 201 or 221.

**CSC 347. GPU Programming. (3 h)**

An introduction to general purpose parallel program development on Graphics Processing Units (GPUs). Topics covered will include data parallelism, memory and data locality, parallel algorithm patterns and performance metrics, and application test studies. P-CSC 201 or 221 and either MST 121, 205 or 206.

**CSC 348. Computer Security. (3 h)**

Introduction to computer security concepts and associated theory. Detailed coverage of the core concepts of access control, cryptography, trusted computing bases, digital signatures, authentication, network security, and secure architectures. Legal issues, security policies, risk management, certification and accreditation are covered in their supporting roles. Students will learn to analyze, design, and build secure systems of moderate complexity. P-CSC 241 or 251.

**CSC 352. Numerical Linear Algebra. (3 h)**

Numerical methods for solving matrix and related problems in science and engineering using a high-level matrix-oriented language such as MATLAB. Topics include systems of linear equations, least squares methods, and eigenvalue computations. Special emphasis given to applications. Also listed as MST 326. P-MST 112; and MST 121, 205 or 206. (D)

**CSC 355. Introduction to Numerical Methods. (3 h)**

Numerical computations on modern computer architectures; floating-point arithmetic and round-off error. Programming in a scientific/engineering language such as MATLAB, C, or FORTRAN. Algorithms and computer techniques for the solution of problems such as roots of functions, approximation, integration, systems of linear equations, and least squares methods. Also listed as MST 355. P-MST 112; and MST 121, 205 or 206. (D)

**CSC 361. Digital Media. (3 h)**

Study of the mathematics and algorithms underlying digital sounds, image, and video manipulation. Topics may include sampling and quantization, resolution, filters, transforms, data encoding and compression, multimedia file types and transmission, 3D printing, and digital media in multimedia and web programming. P-CSC 201 or 221 and MST 111 or 112.

**CSC 363. Computer Graphics. (3 h)**

Study of software and hardware techniques in computer graphics. Topics include line and polygon drawing, hidden line and surface techniques, transformations, and ray tracing. P-CSC 201 or 221; and either MST 121, 205 or 206.

**CSC 365. Image Processing Fundamentals. (3 h)**

Study of the basic theory and algorithms for image enhancement, restoration, segmentation, and analysis. P-CSC 112; and MST 121, 205 or 206.

**CSC 371. Artificial Intelligence. (3 h)**

An overview of areas of study in artificial intelligence. Topics are chosen from among knowledge representation, formal logic, fuzzy logic, intelligent agents, expert systems, machine learning, robotics, and natural language processing. P-CSC 201 or 221.

**CSC 373. Data Mining. (3 h)**

An overview of data mining methods and algorithms for classification, association analysis, clustering, and anomaly detection. A major focus will be on the implementation of algorithms for and design and construction of solutions to data mining problems. Applications and ethical considerations of data mining in humanities, arts, and healthcare are discussed. P-CSC 201 or 221.

**CSC 374. Machine Learning. (3 h)**

An introduction to concepts and application of machine learning algorithms and techniques, focusing on supervised and unsupervised learning. Students learn the theoretical concepts behind several types of machine learning algorithms and gain practical experience applying them. Algorithms covered could include logistic regression, support vector machines, regularization, dimensional reduction, clustering, and neural networks. P-CSC 201 or 221, MST 112 and MST 121, 205, or 206.

**CSC 375. Neural Networks and Deep Learning. (3 h)**

An introduction to concepts and applications of neural networks and deep learning, a branch of machine learning that uses additional layers of high-level representations of data to maximize performance on a given task. The topics covered may include basic neural networks, deep neural networks, and convolutional and recurrent neural networks. Students learn the theoretical concepts behind several types of neural network algorithms and gain practical experience applying them. P-CSC 201 or 221, MST 112, and MST 121, 205 or 206.

**CSC 385. Bioinformatics. (3 h)**

Introduction to computational approaches essential to modern biological inquiry. Approaches may include large biological dataset analyses, sequence similarity and motif searches, and analysis of high-throughput genomic technologies. Emphasizes interdisciplinary interaction and communication. Also listed as CSC 385 and PHY 385. P-CSC 201 or 221 (and BIO 150, 150L, 160, and 160L if taken as BIO 385) or POI.

**CSC 387. Computational Systems Biology. (3 h)**

Introduction of concepts and development of skills for comprehension of systems biology problems, including both biological and computational aspects. Topics may include genome-wide transcriptomic analysis, protein interaction networks, large-scale proteomics experiments, and computational approaches for modeling, storing, and analyzing the resulting data sets. Emphasizes interdisciplinary interaction and communication. Also listed as CSC 387. P-CSC 201 or 221 (also requires BIO 150, 150L, 160, and 160L if taken as BIO 387) or POI.

**CSC 391. Selected Topics. (1-3 h)**

Topics in computer science that are not studied in regular courses or which further examine topics covered in regular courses. May be repeated if topic changes. P - any 200-level CSC course and POI.

**CSC 393. Individual Study. (1-3 h)**

Independent study directed by a faculty adviser. By prearrangement. No more than three hours may be counted toward a computer science major or minor. Enrollment requires prearrangement with a computer science faculty member and departmental approval. P-any 200-level CSC course and POI.

**CSC 399. Computer Science Mastery Exam. (0 h)**

Evaluation of student mastery of core topics in the computer science discipline through standardized testing. Taken during the senior year. Pass/Fail.

## Faculty

**Chair** William Turkett

**Professors** Jennifer J. Burg, Errin W. Fulp, David J. John, V. Paúl Pauca, Peter Santago

**Associate Professors** Daniel A. Cañas, Samuel Cho, Stan J. Thomas, William H. Turkett Jr.

**Assistant Professor** Grey Ballard, Natalia Khuri, Sarra Alqahtani, Minghan Chen

**Affiliate Assistant Professor** James Pease

**Wright Presidential Chair and Professor of Practice** Ron Doyle

**Adjunct Professors** Kelly Kuykendall, Rob Robless

**Reynolds Professor of CS and Math (Emeritus):** Robert J. Plemmons

## Computer Science, B.A.

### Requirements

Requires a minimum of 30 hours in computer science and three courses in mathematics or statistics.

Code	Title	Hours
<b>Required Major Courses</b>		
CSC 111	Introduction to Computer Science	4
CSC 112	Fundamentals of Computer Science	4
CSC 201	Data Structures and Algorithms	3
CSC 250	Computer Systems I	4
CSC 251	Computer Systems II	3
CSC 399	Computer Science Mastery Exam	0
Select three hours at the 191-level or higher		3
Select three hours at the 200-level or higher		3
Select six hours at the 300-level or higher		6
<b>Co-Requirements</b>		
MST 117	Discrete Mathematics	4
Select one of the following:		2-4
MST 121	Linear Algebra I	
MST 205	Introduction to Linear Algebra and Differential Equations	
MST 206	Applied Matrix Algebra and Selected Topics	
Select one of the following:		3-4
MST 112	Calculus with Analytic Geometry II	
STA 111	Elementary Probability and Statistics	
STA 212	Statistical Models	
Any statistics course approved by the Computer Science Department		

## Honors

Highly qualified majors are invited by the department chair to apply for admission to the Honors program. Students not invited may petition the department chair to enter the Honors program. To be graduated with a designation of "Honors in Computer Science," students must satisfactorily complete a senior Honors report and graduate with a minimum GPA of 3.5 in the major and 3.0 in all college work. The Honors designation does not carry academic credit. Rather, it is intended as a special project that reflects the student's ability to go above and beyond the usual course work and carries significant prestige for graduation. The Honors designation appears on the student's transcript.

## Computer Science, B.S.

### Requirements

Requires a minimum of 36 hours in computer science and three courses in mathematics.

Code	Title	Hours
<b>Required Major Courses</b>		
CSC 111	Introduction to Computer Science	4
CSC 112	Fundamentals of Computer Science	4
CSC 201	Data Structures and Algorithms	3
CSC 231	Programming Languages	3
CSC 250	Computer Systems I	4
CSC 251	Computer Systems II	3
CSC 301	Algorithm Design and Analysis	3
CSC 399	Computer Science Mastery Exam	0
Select at least 12 hours in computer science courses at the 300-level or higher		12

**Co-Requirements**

MST 112	Calculus with Analytic Geometry II	4
MST 117	Discrete Mathematics	4
Select one of the following:		2-4
MST 121	Linear Algebra I	
MST 205	Introduction to Linear Algebra and Differential Equations	
MST 206	Applied Matrix Algebra and Selected Topics	

**Honors**

Highly qualified majors are invited by the department chair to apply for admission to the Honors program. Students not invited may petition the department chair to enter the Honors program. To be graduated with a designation of "Honors in Computer Science," students must satisfactorily complete a senior Honors report and graduate with a minimum GPA of 3.5 in the major and 3.0 in all college work. The Honors designation does not carry academic credit. Rather, it is intended as a special project that reflects the student's ability to go above and beyond the usual course work and carries significant prestige for graduation. The Honors designation appears on the student's transcript.

**Computer Science, Minor**

Requires a minimum of 17 hours in computer science and MST 117.

Code	Title	Hours
CSC 111	Introduction to Computer Science	4
CSC 112	Fundamentals of Computer Science	4
CSC 201	Data Structures and Algorithms	3
Select three hours at the 191-level or higher		3
Select three hours at the 300-level or higher		3
MST 117	Discrete Mathematics	4

**Counseling (CNS)**

The Department of Counseling offers courses at the graduate and undergraduate levels.

The Health and Human Services minor allows students to learn basic concepts and skills applicable to allied helping fields that are identified as health and human services. The goal of health and human services work is to improve the quality of life for those who are served and facilitate positive changes for individuals and communities. Therefore this minor focuses on knowledge and abilities for the service professions such as counseling, social work, medicine, dentistry, health policy, allied medical sciences, athletic training, physical therapy, and health promotion. Students supplement their major field of study by learning skills related to health and human services.

**Contact Information**

Department of Counseling (<http://college.wfu.edu/counseling/>)  
Carswell 216, Box 7406  
Phone 336-758-6502

**Programs  
Minor**

- Minor in Health and Human Services

**Courses  
Counseling (CNS)****CNS 334. Ethics in Health and Human Services. (3 h)**

Investigation of the ethical parameters of health and human services work. Topics include least restrictive interventions, privacy, human dignity and compassionate service. NOHS standards will be studied.

**CNS 335. Health and Human Services in a Diverse Society. (3 h)**

Covers the range and characteristics of health and human services systems and organization, the populations served and their needs and the models for prevention, maintenance, intervention, rehabilitation and healthy functioning. (CD)

**CNS 337. Skills in Human Services. (3 h)**

Introduction to communication skills of listening, reflecting, questioning, and problem-solving. These skills will be examined and practiced using role play and simulations.

**CNS 340. Professional Orientation to Health and Human Services. (3 h)**

Provides an overview of health and human services including history, roles, organizational structures, ethics, standards, specializations, and credentialing. Public policy processes and contemporary issues are also considered.

**CNS 342. Group Procedures. (3 h)**

A conceptual exploration of the psychological dynamics and interpersonal communication of teams and systems including structure, leadership models, process and practice, stages of development, techniques, and ethical principles.

**CNS 350. Wellness and Prevention. (3 h)**

An investigation of holistic approaches to wellness and prevention; frameworks for increasing positive well-being through empirically supported, strength-based concepts.; levels of prevention across applied health and human services settings.

**CNS 352. Addiction. (3 h)**

An exploration of the causes of addiction and pathways to recovery. Medical aspects of addiction and the impact of addiction on the brain and body, theories and models of addiction and recovery, and diagnosis and treatment of persons with substance abuse and co-occurring disorders are considered.

**CNS 353. College Student Development. (2 h)**

A course of study for resident advisors that provides the skills and knowledge necessary to work successfully with college students in a residence environment. Includes student development theory, coping with behavior problems, crisis management, mediating conflict, and other issues.

**CNS 364. Creative Arts in Counseling. (3 h)**

Examines the history, theories, processes and techniques of using the creative arts in counseling with clients throughout the lifespan. Attention is given to the visual and performing arts such as drawing, imagery, photography, cartooning, cinema, movement, dance, literature, drama and music. Juniors and Seniors only.

**CNS 396. Independent Study. (1-3 h)**

Independent study with faculty guidance. May be repeated for up to 6 credit hours. By prearrangement.

## Faculty

**Chair** Nathaniel N. Ivers

**Professors** Samuel T. Gladding, José A. Villalba

**Associate Professors** Erin E. Binkley, Philip B. Clarke, Seth C. Hayden, Nathaniel N. Ivers, Debbie W. Newsome, Jennifer L. Rogers, Mark B. Scholl

**Assistant Professors** Donald R. Casares, Jamie E. Crockett, Isabel C. Farrell, Michelle R. Ghoston, Jeremy R. Goshorn, David A. Johnson, Michelle D. Mitchell

**Associate Teaching Professor** Tammy H. Cashwell, Allison M. Forti

**Assistant Teaching Professors** Cheyenne Carter, Nikki C. Elston, J. Robert Nations

**Visiting Assistant Professor** Sarah A. Moore

**Clinical Program Manager** Carla H. Emerson

## Health and Human Services, Minor Requirements

Requires a minimum of 15 hours. Each course must be completed with a grade of C or better. Courses taken as pass/fail do not count toward the minor. Students intending to complete this minor should consult with the health and human services minor coordinator early in their sophomore year.

Code	Title	Hours
CNS 334	Ethics in Health and Human Services	3
CNS 335	Health and Human Services in a Diverse Society	3
CNS 337	Skills in Human Services	3
CNS 340	Professional Orientation to Health and Human Services	3
CNS 342	Group Procedures	3

## Cultural Heritage and Preservation Studies (CHP)

Interdisciplinary Minor

The Departments of Anthropology, Art, History, and Music offer an interdisciplinary minor in Cultural Heritage and Preservation Studies which gives students education and experience in the field of historic preservation and cultural heritage studies aimed at the protection and enhancement of archaeological, historical, and architectural resources. The minor provides focused preparation for graduate study and/or employment in museums; preservation, conservation, and other cultural non-profit organizations; and public cultural agencies.

## Contact Information

Cultural Heritage & Preservation Studies (<http://college.wfu.edu/chp/>)

## Programs Minor

- Minor in Cultural Heritage & Preservation Studies

## Courses

### Cultural Heritage and Preservation Studies (CHP)

**CHP 200. Special Topics. (1-3 h)**

Cultural Heritage and Preservation Studies topics of special interest. Topic varies with instructor. May be repeated for credit.

**CHP 300. Internship. (3 h)**

Internship in the community that involves both hands-on experience and academic study in the broad field of cultural heritage and preservation studies. To be arranged in advance with the program coordinator. P - POI.

## Faculty

**Director, Associate Professor of History** Lisa Blee

### Affiliated Faculty

Elizabeth Clendinning - Assistant Professor of Music

Chanchal Dadlani - Associate Professor of Art History

Thomas Frank - University Professor

Andrew Gurstelle - Assistant Teaching Professor of Anthropology and

Director of the Museum of Anthropology

Stephanie Koscak - Associate Professor of History

Morna O'Neill - Associate Professor of Art History

John Ruddiman - Associate Professor of History

Paul Thacker - Associate Professor of Anthropology

## Cultural Heritage & Preservation Studies, Minor

### Requirements

The minor requires 18 hours distributed among at least three departments.

Code	Title	Hours
<b>Core Courses</b>		
Select three of the following required courses distributed across three departments:		9
ANT 112	Introduction to Archaeology	
ANT 190	Introduction to Museum Studies	
ART 105	History of World Architecture	
ART 241	Ancient Art and Architecture	
HST 366	Historic Preservation and Conservation	
HST 367	Public History	
MUS 109/209	Introduction to the Music of World Cultures	
Select a three hour internship or practicum course in one of the affiliated departments		3
Select the remaining six hours from the following:		6
<b>Additional Core Courses</b>		
Approved Elective Courses		

Additional elective courses may have been approved since publication of this bulletin. The program coordinator maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this bulletin.

## Cultural Resource Preservation Electives

Code	Title	Hours
CHP 200	Special Topics	1-3
ANT 305	Museum Anthropology	3
ANT 315	Artifact Analysis and Laboratory Methods in Archaeology	4
ANT 370	Origins to Empires: The Archaeology of Africa and Eurasia	3
ANT 374	North American Archaeology	3
ANT 378	Conservation Archeology	1.5
ANT 381	Field Program in Anthropological Archaeology	3
ANT 382	Field Program in Anthropological Archaeology	3
ART 203	Islamic Art and Architecture	3
ART 204	South Asian Art and Architecture	3
ART 206	Art and Empire: India and Europe, 1500-1900	3
ART 207	Building Empire: Early Modern Islamic Architecture	3
ART 208	Ottoman Art and Architecture	3
ART 244	Greek Art and Architecture	3
ART 245	Art and Architecture of the Roman World	3
ART 250	Medieval Art and Architecture	3
ART 259	The History of Photography	3
ART 396	Art History Seminar (subject to approval)	4
HST 161	History Museums	1.5
HST 266	The History of the Slave South	3
HST 267	The Making of the Modern South since the Civil War	3
HST 324	Fashion in the Eighteenth Century	3
HST 325	English Kings, Queens, and Spectacle	3
HST 370	Topics in North Carolina History	3
HST 372	Queer Public Histories	3
HST 381	Religious Utopias and the American Experience	3
MUS 134/234	Music of Asia	3

## Internships Approved for Cultural Heritage & Preservation Studies Minors

Code	Title	Hours
CHP 300	Internship	3
ANT 391	Internship in Anthropology	1-3
ART 293	Practicum	3,4
HST 395	Internship in History	1-3
MUS 279	Internship in Music	1-3

Students intending to minor in Cultural Heritage & Preservation Studies should consult the program coordinator. Equivalent courses must be approved by the program coordinator.

## East Asian Languages and Cultures (EAL)

The department offers courses of study leading to majors and minors in Chinese Language and Culture and Japanese Language and Culture respectively. Because of the number of prerequisite courses and the study abroad requirement for the majors, students are encouraged to start the major as early as possible. Requests for substitutions and exceptions to the stated curriculum should be made to the department chair. The requirements for completion of each degree program are those in effect in the bulletin year when the students declare the major or minor.

Code	Title	Hours
<b>Prerequisites</b>		
CHI 101	First-year Chinese I	4
or JPN 101	First-year Japanese I	
CHI 102	First-year Chinese II	4
or JPN 102	First-year Japanese II	
CHI 153	Second-year Chinese I	4
or JPN 153	Second-year Japanese I	
CHI 201	Second-year Chinese II	4
or JPN 201	Second-year Japanese II	

**Study abroad credit transfer.** Non-equivalent courses approved as CHI/JPN/EAL 500 will count toward the major or minor. Courses approved as CHI/JPN/EAL 520 will count as elective hours toward graduation only.

Chinese and Japanese courses at the 100-level may not be taken pass-fail. Any exception to the policy must arise from exceptional circumstances and must be approved by the Chair of the department.

## Contact Information

Department of East Asian Languages and Cultures (<http://college.wfu.edu/ealc/>)  
Carswell Hall 022, Box 7457  
Phone 336-758-4817

## Programs

### Majors

- B.A. in Chinese Language and Culture
- B.A. in Japanese Language and Culture

### Minors

- Minor in Chinese Language and Culture
- Minor in Japanese Language and Culture

## Courses

### East Asian Languages and Cultures (EAL; Taught in English)

#### EAL 219. Major Works of Japanese Literature I. (3 h)

A study of major works of Japanese literature, this course examines epic and lyric poetry, novels, drama, travelogues, and satirical pieces chosen both for their central place in the canon and for their insights into Japanese history and culture. (CD, D)

**EAL 220. Major Works of Japanese Literature II. (3 h)**

A study of major works of Japanese literature, this course examines novels, drama, modernity and modernization, and literary movements and genres chosen both for their central place in the canon and for their insights into Japanese history and culture. (CD, D)

**EAL 221. Themes in Chinese Literature I. (3 h)**

Examines selected themes in Chinese fiction, drama, and poetry with an emphasis on the modern and early modern periods. (CD, D)

**EAL 222. Themes in Chinese Literature II. (3 h)**

Examines selected themes in Chinese fiction, drama, and poetry with an emphasis on the early modern and pre-modern periods. (CD, D)

**EAL 223. Traditional Chinese Literature. (3 h)**

Surveys the history of the traditional Chinese fictional narrative across a variety of genres and forms such as the classical anecdote, folktale, vernacular story, dramas, and novel. (CD, D)

**EAL 231. Early 20th-century Chinese Modernism. (3 h)**

An interdisciplinary exploration of Chinese modernist experiments in literature, art, architecture, and graphic design in the first half of the 20th century. (CD)

**EAL 241. Gender in Japanese Literature. (3 h)**

A study of the changing aesthetics and ideologies of gender and sexuality in Japanese literature with a focus on modern fiction and poetry. (CD)

**EAL 251. The Asian-American Experience: Literature and Personal Narratives. (3 h)**

Introduction to the writings and narratives of Asian Americans of South and Southeast Asian descent, including Asian Americans of Chinese, Japanese, Korean, and Indian descent. Explores the process of assimilation including the effects of immigration and cultural conflict on literary forms of expression, as well as the formation of new cultural identities. (CD)

**EAL 252. Chinese Cinemas. (3 h)**

Provides a thorough examination of Chinese cinemas from mainland China, Hong Kong, and Taiwan, paying special attention to films' aesthetic responses to historical catastrophe, political upheaval, and social transformation. Examining film's concerns with the narration of history raises further questions regarding national and cultural identity, popular culture and cinematic form, gender and sexuality, exile and diaspora, and revolutionary aesthetics. (CD)

**EAL 253. Japanese Film: Themes and Methods. (3 h)**

Explores themes, artistic visions, and techniques in a variety of film genres, from historical dramas to contemporary comedies and from realism to fantasy and science fiction. Special focus is given to the films' historical and political context. (CD)

**EAL 270. Contemporary Japanese Culture. (3 h)**

Selected topics in Japanese literature, pop culture, film, animation, and other forms. May be repeated for credit when topic differs. (CD)

**EAL 271. Mass Culture in Modern China. (3 h)**

Inquires into the critical concept of mass and popular culture by looking at newspapers, posters, literature, film, and music, and tracing their sociopolitical, aesthetic, and affective impacts on modern China. (CD)

**EAL 272. Literature and Film from Taiwan, Hong Kong, and Beyond. (3 h)**

Explores the specific cultural, political, historical, and aesthetic contexts that contributed to the development of Chinese-language writings and the film outside the mainland. (CD)

**EAL 273. Kung Fu China: Culture, Narrative, Globalization. (3 h)**

Surveys Chinese martial arts narratives in fiction, film, and visual culture from its ancient origins to the present day. Explores the forces of physical combat alongside issues such as philosophy, politics, gender, technology, and globalization.

**EAL 275. Survey of East Asian Cultures. (3 h)**

Explores the cultural traditions of China, Japan and Korean in their historical, regional and global contexts. (CD)

**EAL 285. Contemporary East Asian Cinema. (3 h)**

Examines the depiction of the cultural landscape of contemporary East Asia and the development of a transnational imaginary in recent works of Chinese-, Japanese-, and Korean-language film. (CD)

**EAL 290. Special Topics. (3 h)**

Selected themes and approaches to East Asian literature, drama, culture, and film. Topics to be chosen by staff prior to the term the course is offered. May be repeated for credit. P-POI.

**EAL 299. Individual Study. (1-3 h)**

P-POI.

**EAL 303. Field Research Preparation. (1 h)**

Development of target language (Chinese or Japanese) field research materials and preparation for field research practicum in China, Japan, or Taiwan. P-POI.

**EAL 304. Field Research Practicum. (2 h)**

Use of target language research materials in field research project in China, Japan, or Taiwan to investigate aspects of culture and belief systems and to apply specific disciplinary frameworks. Not offered at the Wake Forest campus. P-POI.

**EAL 375. Senior Research Seminar. (3 h)**

Capstone research project required of graduating majors.

**EAL 376. Honors Thesis. (3 h)**

Directed research for the honors thesis. P-EAL 375 and POI.

## Chinese(CHI)

**CHI 101. First-year Chinese I. (4 h)**

Two-semester sequence designed to develop students' elementary Chinese communication skills in simple daily life contexts. Reading, writing, listening, and speaking are given equal weight, with emphasis on listening and speaking skills in class.

**CHI 102. First-year Chinese II. (4 h)**

Two-semester sequence designed to develop students' elementary Chinese communication skills in simple daily life contexts. Reading, writing, listening, and speaking are given equal weight, with emphasis on listening and speaking skills in class. P-CHI 101 or equivalent.

**CHI 153. Second-year Chinese I. (4 h)**

Two-semester sequence designed to develop students' Chinese communication skills in a wide range of daily life contexts, including some work scenarios. Students will gain a basic appreciation of cultural differences. P - CHI 102 or equivalent.

**CHI 201. Second-year Chinese II. (4 h)**

Two-semester sequence designed to develop students' Chinese communication skills in a wide range of daily life contexts, including some work scenarios. Students will gain a basic appreciation of cultural differences. P - CHI 153 or equivalent.

**CHI 220. Third-year Chinese I. (3 h)**

Two-semester sequence designed to enhance students' Chinese communication skills, with emphasis on accuracy and fluency on various topics at more abstract levels. Students will deepen their understanding of cultural differences. P - CHI 201.

**CHI 230. Third-year Chinese II. (3 h)**

Two-semester sequence designed to enhance students' Chinese communication skills, with emphasis on accuracy and fluency on various topics at more abstract levels. Students will deepen their understanding of cultural differences. P - CHI 220 or POI.

**CHI 231. Fourth-year Chinese I. (3 h)**

Continuation of CHI 230, with emphasis on comprehending and producing more complex and sophisticated Chinese. Students will develop an advanced understanding of cultural differences. P - CHI 230 or POI.

**CHI 255. Business Chinese. (3 h)**

Communicating in Mandarin Chinese for business purposes. This course will prepare students to start a job search and build partnerships in Chinese-speaking areas, with emphasis on developing advanced intercultural communicative capability. P-CHI 230 or POI.

**CHI 290. Chinese Abroad. (3 h)**

Teaches reading and writing in Chinese language. Designed to accompany concurrent courses taken abroad in conversational Chinese and to provide a rigorous framework for the study and memorization of Chinese characters. Not offered on the Wake Forest campus. May be repeated for credit with POI.

**CHI 291. Special Topics in Chinese. (3 h)**

Develops students' confidence and skills in handling topical issues in Chinese society and culture using authentic materials. Designed for students who have completed CHI 231 at Wake Forest and/or through study abroad. P-CHI 231 or POI.

**CHI 296. Chinese across the Curriculum. (1 h)**

Coursework in Chinese completed as an adjunct to specially-designated courses throughout the college curriculum. P-POI.

**CHI 299. Individual Study. (1-3 h)**

P-POI .

**CHI 351. Classical Chinese. (3 h)**

Vocabulary and syntax of the written Chinese language prior to the 20th century, including readings from the 4th century BC authors such as Mencius, along with writings from later centuries. P-POI.

## Japanese (JPN)

**JPN 101. First-year Japanese I. (4 h)**

Two-semester sequence designed to help students develop their ability to communicate in Japanese at the elementary level. Focuses on developing proficiency in listening, speaking, reading, and writing.

**JPN 102. First-year Japanese II. (4 h)**

Two-semester sequence designed to help students develop their ability to communicate in Japanese at the elementary level. Focuses on developing proficiency in listening, speaking, reading, and writing. P-JPN 101 or equivalent.

**JPN 153. Second-year Japanese I. (4 h)**

Two-semester sequence at the intermediate level. Continues to focus on developing proficiency in listening, speaking, reading, and writing. Expands students' ability to communicate with a broader range of vocabulary and grammar. P-JPN 102 or equivalent.

**JPN 201. Second-year Japanese II. (4 h)**

Two-semester sequence at the intermediate level. Continues to focus on developing proficiency in listening, speaking, reading, and writing. Expands students' ability to communicate with a broader range of vocabulary and grammar. P-JPN 153 or equivalent.

**JPN 220. Third-year Japanese I. (3 h)**

Two-semester sequence at the advanced level. Integrates conversation, discussion, presentation, reading, and writing skills with emphasis on written and audiovisual sources. P-JPN 201 or POI.

**JPN 230. Third-year Japanese II. (3 h)**

Two-semester sequence at the advanced level. Integrates conversation, discussion, presentation, reading, and writing skills with emphasis on written and audiovisual sources. P-JPN 220 or equivalent.

**JPN 231. Fourth-year Japanese I. (3 h)**

Advanced readings, discussion, presentations, and writing practice on topics in Japanese culture and society, using authentic stories, poetry, films, songs, websites, and other multimedia sources. P-JPN 230 or equivalent.

**JPN 250. Introduction to Literature Written in Japanese. (1-3 h)**

Develops students' productive skills at the discursive and rhetorical levels using authentic materials. Designed for students who have completed the cycle of Japanese courses at Wake Forest and/or through study abroad. P-JPN 231 or POI.

**JPN 290. Japanese Abroad. (3 h)**

Coursework in Japanese taken abroad. Not offered at the Wake Forest campus. May be repeated for credit with POI.

**JPN 291. Special Topics in Japanese. (3 h)**

Develops students' confidence and skills in handling topical issues in Japanese society and culture using authentic materials. P-JPN 230 or POI.

**JPN 296. Japanese across the Curriculum. (1 h)**

Coursework in Japanese done as an adjunct to specially-designated courses throughout the college curriculum. P-POI.

**JPN 299. Individual Study. (1-3 h)**

P-POI.

## Faculty

**Chair** Stew Carter

**Associate Professor** Andrew Rodekoher, Yaohua Shi

**Assistant Professors** Mari Ishida, Qiaona Yu

**Professor of the Practice** Yasuko T. Rallings

**Assistant Teaching Professor** Lu Lu

**Visiting Assistant Professor of Practice** Bo Zhan

## Chinese Language and Culture, B.A. Requirements

Requires 31 hours including five advanced language courses beyond CHI 201.

Code	Title	Hours
<b>Required Major Courses</b>		
CHI 220	Third-year Chinese I	3
CHI 230	Third-year Chinese II	3
CHI 231	Fourth-year Chinese I	3
CHI 290	Chinese Abroad	3
CHI 296	Chinese across the Curriculum	1

EAL 275	Survey of East Asian Cultures	3
EAL 375	Senior Research Seminar	3
Select one of the following:		3
HST 244	Pre-Modern China to 1850	
HST 245	Modern China since 1850	
HST 344	Early Modernity in China	
HST 352	Ten Years of Madness: The Chinese Cultural Revolution, 1966 to 1976	
REL 382	Religion and Culture in China	
POL 248	Chinese Politics	
Select three of the following electives in Chinese literature, film and/or culture: *		9
EAL 221	Themes in Chinese Literature I	
EAL 222	Themes in Chinese Literature II	
EAL 231	Early 20th-century Chinese Modernism	
EAL 252	Chinese Cinemas	
EAL 271	Mass Culture in Modern China	
EAL 272	Literature and Film from Taiwan, Hong Kong, and Beyond	
EAL 273	Kung Fu China: Culture, Narrative, Globalization	
EAL 285	Contemporary East Asian Cinema	
Study abroad in China or Taiwan **		

\* CHI 255 may substitute as an EAL elective course.

\*\* Under special circumstances, a student may substitute an approved intensive immersion program in the U.S. for the study abroad requirement.

A minimum C average is required for all courses in the major.

## Honors

Highly qualified majors should apply for admission to the honors program in East Asian Languages and Cultures. To be graduated with the designation "Honors in Chinese Language and Culture" or "Honors in Japanese Language and Culture" following completion of EAL 375, the student must enroll in EAL 376, present an honors-quality research paper, successfully defend the paper in an oral examination, and earn an overall GPA of 3.0 with an average of 3.3 on work in courses taken as part of the major in Chinese or Japanese. For additional information, students should consult members of the department.

## Chinese Language and Culture, Minor Requirements

Requires six hours of advanced study in the language beyond CHI 201.

Code	Title	Hours
CHI 220	Third-year Chinese I	3
CHI 230	Third-year Chinese II	3
Select six credits of the following electives in literature, film and/or culture of China: *		6
EAL 221	Themes in Chinese Literature I	
EAL 222	Themes in Chinese Literature II	
EAL 231	Early 20th-century Chinese Modernism	
EAL 252	Chinese Cinemas	

EAL 271	Mass Culture in Modern China	
EAL 272	Literature and Film from Taiwan, Hong Kong, and Beyond	
EAL 273	Kung Fu China: Culture, Narrative, Globalization	
EAL 285	Contemporary East Asian Cinema	
Study abroad is highly recommended but not required		

\* CHI 255 may substitute as an EAL elective course.

A minimum C average is required for all courses in the minor.

## Japanese Language and Culture, B.A. Requirements

Requires 31 hours including four advanced language courses beyond JPN 201.

Code	Title	Hours
<b>Required Major Courses</b>		
JPN 220	Third-year Japanese I	3
JPN 230	Third-year Japanese II	3
JPN 290	Japanese Abroad	3
JPN 296	Japanese across the Curriculum	1
EAL 275	Survey of East Asian Cultures	3
EAL 375	Senior Research Seminar	3
Select three of the following electives in Japanese literature, film and/or culture: *		9
EAL 219	Major Works of Japanese Literature I	
EAL 220	Major Works of Japanese Literature II	
EAL 241	Gender in Japanese Literature	
EAL 253	Japanese Film: Themes and Methods	
EAL 270	Contemporary Japanese Culture	
EAL 285	Contemporary East Asian Cinema	
Select two of the following Japanese history and/or religion courses:		6
HST 246	Japan before 1600	
HST 247	Japan since 1600	
HST 347	The Rise of Asian Economic Power since WWII	
HST 348	Samurai and Geisha: Fact, Film, and Fiction	
REL 363	The Religions of Japan	
REL 381	Zen Buddhism	
Study abroad in Japan **		

\* JPN 231 may substitute as an EAL elective course.

\*\* Under special circumstances, a student may substitute an approved intensive immersion program in the U.S. for the study abroad requirement.

A minimum C average is required for all courses in the major.

## Honors

Highly qualified majors should apply for admission to the honors program in East Asian Languages and Cultures. To be graduated with the designation "Honors in Chinese Language and Culture" or "Honors



in Japanese Language and Culture" following completion of EAL 375, the student must enroll in EAL 376, present an honors-quality research paper, successfully defend the paper in an oral examination, and earn an overall GPA of 3.0 with an average of 3.3 on work in courses taken as part of the major in Chinese or Japanese. For additional information, students should consult members of the department.

## Japanese Language and Culture, Minor

### Requirements

Requires six hours of advanced study in the language beyond JPN 201.

Code	Title	Hours
JPN 220	Third-year Japanese I	3
JPN 230	Third-year Japanese II	3
Select six hours of the following electives in literature, film and/or culture of Japan:		6
EAL 219	Major Works of Japanese Literature I	
EAL 220	Major Works of Japanese Literature II	
EAL 241	Gender in Japanese Literature	
EAL 253	Japanese Film: Themes and Methods	
EAL 270	Contemporary Japanese Culture	
EAL 285	Contemporary East Asian Cinema	

Study abroad is highly recommended but not required

A minimum C average is required for all courses in the minor.

## East Asian Studies (EAS)

Interdisciplinary Minor

The East Asian Studies Minor provides an opportunity for students to undertake interdisciplinary study of the art, film, history, literature, music, philosophy, politics, religion, and culture of East Asia, including connections with Northeast, Central and Southeast Asia.

### Contact Information

East Asian Studies (<http://college.wfu.edu/eas/>)

## Programs Minor

- Minor in East Asian Studies

### Courses

#### EAS 311. Special Topics in East Asian Studies. (1-3 h)

An intensive survey of one or more important issues in East Asian studies not included in the regular course offerings. P-POI.

#### EAS 381. Independent Research in East Asian Studies. (1-3 h)

Supervised independent research project on a topic related to East Asia. May be repeated for credit. P-Permission of both instructor and coordinator of East Asian Studies.

## Faculty

Coordinator, Associate Professor of History Robert I. Hellyer

List of Affiliated Faculty

Wei-chin Lee, Professor, Politics and International Affairs

Jay Ford, Professor, Study of Religions

Yaohua Shi, Associate Professor, East Asian Languages and Cultures

Qiong Zhang, Associate Professor, History

Andy Rodekohr, Assistant Professor, East Asian Languages and Cultures

## East Asian Studies, Minor Requirements

The minor consists of a total of 15 hours.

Code	Title	Hours
Select at least one course from three of the four following curriculum groupings:		
	Literature & Humanities Electives	
	Art, Music, Philosophy, and Study of Religions Electives	
	Social Sciences Electives	
	History Electives	

Nine or more of the hours towards the minor must focus on a geographical area—Japan, China, or Korea.

Appropriate credit in various fields of East Asian Studies also may be obtained by study abroad in programs approved by the coordinator. Interested students are encouraged, preferably in their sophomore year, to consult with the coordinator or an affiliated adviser to discuss their interests and structure a coherent course of study.

Courses may be chosen from among the list of approved courses. Additional elective courses may have been approved since publication of this bulletin. The program coordinator maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this bulletin.

## East Asian Studies Electives Group One: Literature & Humanities

Code	Title	Hours
EAL 219	Major Works of Japanese Literature I	3
EAL 221	Themes in Chinese Literature I	3
EAL 222	Themes in Chinese Literature II	3
EAL 231	Early 20th-century Chinese Modernism	3
EAL 241	Gender in Japanese Literature	3
EAL 251	The Asian-American Experience: Literature and Personal Narratives	3
EAL 252	Chinese Cinemas	3
EAL 253	Japanese Film: Themes and Methods	3
EAL 270	Contemporary Japanese Culture	3
EAL 271	Mass Culture in Modern China	3
EAL 272	Literature and Film from Taiwan, Hong Kong, and Beyond	3
EAL 275	Survey of East Asian Cultures	3
EAL 285	Contemporary East Asian Cinema	3
HMN 219	Introduction to Japanese Literature	3

## East Asian Studies Electives Group Two: Art, Music, Philosophy, and Study of Religions

Code	Title	Hours
ART 104	Topics in World Art (when focus is East Asia)	3
MUS 134/234	Music of Asia	3
PHI 235	Main Streams of Chinese Philosophy	3
REL 104C	Introduction to East Asian Religions	3
REL 109	Introduction to Buddhist Traditions	3
REL 329	Chinese Medicine	3
REL 349	Asian Meditation Practices	3
REL 361	Topics in Buddhism	3
REL 363	The Religions of Japan	3
REL 381	Zen Buddhism	3
REL 382	Religion and Culture in China	3
REL 391	Topics in East Asian Religions	3

## East Asian Studies Electives Group Three: Social Sciences

Code	Title	Hours
COM 351A	Comparative Communication: Japan	1.5,3
COM 351E	Comparative Communication: China	1.5,3
INS 349	Japanese and American Culture: Cross-Cultural Communication	3
POL 242	Topics in Comparative Politics (when topic is China-Africa Encounters)	3
POL 248	Chinese Politics	3
POL 260	United States and East Asia	3

## East Asian Studies Electives Group Four: History

Code	Title	Hours
HST 109	Asia and the World	3
HST 244	Pre-Modern China to 1850	3
HST 245	Modern China since 1850	3
HST 246	Japan before 1600	3
HST 247	Japan since 1600	3
HST 249	Intro to East Asia	3
HST 343	The Silk Roads	3
HST 344	Early Modernity in China	3
HST 347	The Rise of Asian Economic Power since WWII	3
HST 348	Samurai and Geisha: Fact, Film, and Fiction	3
HST 352	Ten Years of Madness: The Chinese Cultural Revolution, 1966 to 1976	3

## Economics (ECN)

The objectives of the economics program are to help prepare students for effective participation in the decision-making processes of society, to develop analytical skills in solving economic problems, to promote a

better understanding of alternative economic systems, and to provide a balanced curriculum to prepare students for graduate study or positions in industry and government. Any (3h) economics course satisfies a divisional requirement.

## Contact Information

Department of Economics (<http://college.wfu.edu/economics/>)  
Kirby Hall 225, Box 7505  
Phone 336-758-5334

## Programs

### Majors

- B.A. in Economics
- B.S. in Mathematical Economics

### Minor

- Minor in Economics

## Courses

### Economics (ECN)

#### ECN 150. Introduction to Economics. (3 h)

A survey of micro and macroeconomic principles. Introduction to basic concepts, characteristic data and trends, and some analytic techniques. (D)

#### ECN 205. Intermediate Microeconomics I. (3 h)

Development of demand and supply analysis, neoclassical theory of household and firm behavior, and alternative market structures. P-ECN 150 and MST 111 or 112. (D)

#### ECN 207. Intermediate Macroeconomics. (3 h)

Development of macroeconomic concepts of national income, circular flow, income determination, causes of unemployment, IS-LM analysis, inflation, and growth models. Emphasizes contributions of Keynes and the Keynesian tradition. P-ECN 150 and MST 111 or 112. (D)

#### ECN 209. Applied Econometrics. (3 h)

An introduction to regression analysis methods used to estimate and test relationships among economic variables. Selected applications from microeconomics and macroeconomics are studied. Emphasis is on examining economic data, identifying when particular methods are appropriate and interpreting statistical results. P-ECN 150 and STA 111, (or similar course, including ANT 380; BIO 380; BEM 201; HES 262; MST 358, SOC 271, or STA 311). (D, QR)

#### ECN 210. Intermediate Mathematical Microeconomics. (3 h)

Mathematically intensive approach to demand and supply analysis, neoclassical theory of household and firm behavior, and alternative market structures. P - ECN 150 and MST 112. (D)

#### ECN 211. Intermediate Mathematical Macroeconomics. (3 h)

Mathematically intensive approach to macroeconomic analysis of national income, unemployment, inflation, and growth. P - ECN 150 and MST 112. (D)

#### ECN 215. Econometric Theory and Methods. (3 h)

Estimation and inference in relation to quantitative economic models. Methods covered include Ordinary Least Squares, Generalized Least Squares and Maximum Likelihood. P-ECN 150, STA 111 or MST 357/ STA 310, MST 113 and MST 121. (D, QR)

**ECN 240. Economics of Health and Medicine. (3 h)**

Applications of the methods of economic analysis to the study of the health care industry. P-ECN 150 and an applied statistics course such as ANT 380, BIO 380, BEM 201, HES 262, PSY 311, SOC 271 or STA 111, or POI. (D)

**ECN 241. Environmental and Natural Resource Economics. (3 h)**

Develops the economic theory of natural resource markets and explores public policy issues in natural resources and the environment. P-ECN 150 (D)

**ECN 243. Economics of Global Health. (3 h)**

Applications of economic analysis to study health issues in low and middle-income countries. P-ECN 150 and an applied statistics class such as: ANT 380, BIO 380, BEM 201, HES 262, STA 111 (previously MST 109), PSY 311, or SOC 371, or POI. (D)

**ECN 261. American Economic Development. (3 h)**

The application of economic theory to historical problems and issues in the American economy. P-ECN 150. (D)

**ECN 270. Current Economic Issues. (3 h)**

Examines current economic issues using economic theory and empirical evidence. Topics may include recent macroeconomic trends, the distribution of income, minimum wages, immigration, Social Security, war, climate change, trade, regulation and deregulation, antitrust policy, health care, labor unions, tax reform, educational reform, and others. P-ECN 150. (D)

**ECN 271. Selected Areas in Economics. (1-3 h)**

A survey of an important area in economics not included in the regular course offerings. The economics of housing, education or technology are examples. Students should consult the instructor to ascertain topic before enrolling. P-ECN 150. (D)

**ECN 292. College Fed Challenge. (1.5 h)**

Preparation for the annual College Fed Challenge competition. The competition culminates in a presentation of current economic conditions and monetary policy recommendations for the Federal Open Market Committee. The 1.5 hours of academic credit are awarded in the fall semester, but to qualify students must have been active members of the Fed Challenge team in the preceding spring (a commitment of 1 hour per week). Pass/fail only. P - POI.

**ECN 306. Intermediate Microeconomics II. (3 h)**

More advanced theory of maximizing behavior of economic agents with discussion of risk, uncertainty, and economic dynamics. Theory employed in assessment of policy issues. P-ECN 205 or 210. (D)

**ECN 316. Game Theory. (3 h)**

An introduction to mathematical models of social and strategic interactions. P-ECN 205 or 210 and STA 111. (D)

**ECN 317. Market Design. (3 h)**

Theoretical analysis of the design of rules and algorithms to allocate scarce resources. Topics include matching markets, such as those for school choice, entry-level labor markets, and kidney exchanges; auctions with applications to the sale of natural resources, financial assets, and advertising; and online platforms. P-ECN 205 or 210. (D)

**ECN 318. Advanced Topics in Mathematical Economics. (3 h)**

Advanced mathematical techniques such as dynamic programming or lattice theory, and the applications of these techniques to optimization and equilibrium problems in various fields of economics such as growth theory, search theory, and auction theory. P-ECN 210, 211 and MST 112. (D)

**ECN 319. Behavioral Economics. (3 h)**

This course analyzes ways of decision-making that deviate from the standard economic understanding of rational decision-making. The main focus is on behaviors that fall under the umbrella of prospect theory. P-ECN 205 or 210. (D)

**ECN 322. Monetary Theory and Policy. (3 h)**

An investigation of the nature of money, the macroeconomic significance of money, financial markets, and monetary policy. P-ECN 207 or 211. (D)

**ECN 323. Financial Markets. (3 h)**

A study of the functions, structure, and performance of financial markets. P-ECN 205 or 210 and ECN 207 or 211. (D)

**ECN 324. Law and Economics. (3 h)**

An economic analysis of property, contracts, torts, criminal behavior, due process, and law enforcement. P-ECN 205 or 210. (D)

**ECN 326. Theory of Social Choice. (3 h)**

Development of Constitutional Economics in establishing rules for governmental and group decision-making by democratic means. Implications for various voting rules are considered in terms of both positive and normative criteria. P-ECN 205 or 210. (D)

**ECN 333. Economics in Sports. (3 h)**

Study of the design of sporting contests with particular attention paid to league governance decisions, measuring competitor productivity, and strategies used by competitors. P-ECN 205 or 210. (D)

**ECN 335. Economics of Labor Markets. (3 h)**

A theoretical and empirical survey of labor markets. Topics include: the demand and supply of labor, compensating wage differentials, education and training, discrimination, unions, public sector employment, earnings inequality, and unemployment. P-ECN 205 or 210. (D)

**ECN 351. International Trade. (3 h)**

Development of the theory of international trade patterns and prices and the effects of trade restrictions such as tariffs and quotas. P-ECN 205 or 210. (D)

**ECN 352. International Finance. (3 h)**

The study of the open macroeconomy, with a particular focus on the foreign exchange market and the history of the international monetary system. P-ECN 205 or 210 and ECN 207 or 211. (D)

**ECN 358. Economic Growth and Development. (3 h)**

A study of the problems of economic growth, with particular attention to the less developed countries of the world. P-ECN 205 or 210 or POI. (D)

**ECN 362. History of Economic Thought. (3 h)**

Historical survey of the main developments in economic thought from the Biblical period to the 20th century. P-ECN 205 or 210 and ECN 207 or 211. (D)

**ECN 365. Economic Philosophers. (3 h)**

An in-depth study of the doctrines and influence of up to three major figures in economics, such as Smith, Marx, and Keynes. P-ECN 205 or 210 and ECN 207 or 211. (D)

**ECN 372. Selected Areas in Economics. (1-3 h)**

Survey of an important area in economics not included in the regular course offerings. The economics of housing, education or technology are examples. Students should consult the instructor to ascertain topic before enrolling. P-ECN 205 or 210 and ECN 207 or 211. (D)

**ECN 374. Topics in Macroeconomics. (3 h)**

Considers significant issues and debates in macroeconomic theory and policy. Examples might include a New Classical-New Keynesian debate, currency crises, conversion of federal deficit to surplus, competing models of economic growth, alternative monetary and fiscal policy targets. P-ECN 207 or 211. (D)

**ECN 375. Macroeconomic Models. (3 h)**

Development of formal macroeconomic models of both Keynesian and classical types. Involves exploration of comparative statics, dynamic analysis and policy assessment. P-ECN 207. C-MST 113 and 121. (D)

**ECN 376. Quantitative Asset Pricing. (3 h)**

This class studies the theoretical and applied pricing of options. Topics include basic definitions and payoffs of options, the binomial asset pricing model, the Black-Scholes pricing model, and Monte Carlo simulations. Students will also study the ways in which options can provide a hedge against uncertainty. P-ECN 207 and MST 121.

**ECN 390. Individual Study. (1.5, 3 h)**

Directed readings in a specialized area of economics. P-POI.

**ECN 391. Public Finance. (3 h)**

An examination of the economic behavior of government. Includes reasons for and against government action, the appropriate response of governments in cases of market failures, and how private agents will respond to those government actions. P- ECN 209 or 215; and ECN 205 or 210. (D)

**ECN 392. Public Choice. (3 h)**

Traditional tools of economic analysis are employed to explore such topics in political science as political organization, elections, coalition formation, the optimal provision of public goods, and the scope of government. P-ECN 209 or 215; and ECN 205 or 210. (D)

**ECN 393. Economics of Industry. (3 h)**

Analysis of the link between market structure and market performance in United States industries from theoretical and empirical viewpoints. Examines the efficiency of mergers, cartels, and other firm behaviors. Case studies may include automobiles, steel, agriculture, computers, sports, and telecommunications. P-ECN 209 or 215; and ECN 205 or 210. (D)

**ECN 394. Economics of Higher Education. (3 h)**

Applies economic theory and data analysis in an investigation of important current issues in higher education. Issues of prestige, admissions, financial aid, access, student and faculty quality, alumni giving and endowments, and externalities will be addressed. P-ECN 209 or 215; and ECN 205 or 210. (D)

**ECN 395. Prediction Markets. (3 h)**

Prediction markets help make forecasts about upcoming events, and are used by large companies to manage risk. This course provides background on what these markets are, the theoretical reasons why they might work, and studies real world applications such as election forecasting. Students will participate and trade in a live prediction market throughout the semester. P-ECN 205 or 210; and ECN 209 or 215. (D)

**ECN 398. Preparing for Economic Research. (1.5 h)**

Designed to assist students in selecting a research topic and beginning a research project on the selected topic. P-ECN 209 or 215 and POI.

**ECN 399. Research. (1.5 h)**

Completion of a senior research project. Required of candidates for departmental honors. P-ECN 398 and POD.

## Faculty

**Chair** Sandeep Mazumder

**Reynolds Professor** John H. Wood

**Professor and Burchfield Presidential Chair of Political Economy**

Koleman Strumpf

**Professors** Frederick H. Chen, Allin F. Cottrell, Jac C. Heckelman, Sandeep Mazumder, Robert M. Whaples

**Associate Professors** E. Mark Curtis, Christina M. Dalton, John T. Dalton, Francis X. Flanagan, Amanda Griffith, Tin Cheuk (Tommy) Leung

**Assistant Professors** Aeimit Lakdawala, Leah K. Lakdawala, Jane M. Ryngaert, Margaret Triyana, Chu (Alex) Yu

**Associate Teaching Professor** John MacDonald

**Assistant Teaching Professor** Todd McFall

**Visiting Associate Professor** Megan Regan

**Visiting Assistant Professor** Andrew Graczyk

## Economics, B.A.

### Requirements

Prior to declaring the major, students must have minimum grade C or AP credit in ECN 150. The major in economics consists of 30 hours in economics\* including:

Code	Title	Hours
<b>Required Major Courses</b>		
ECN 150	Introduction to Economics **	3
ECN 205	Intermediate Microeconomics I ***	3
or ECN 210	Intermediate Mathematical Microeconomics	
ECN 207	Intermediate Macroeconomics ***	3
or ECN 211	Intermediate Mathematical Macroeconomics	
ECN 209	Applied Econometrics ***	3
Electives must include at least three 300-level courses		
<b>Co-Requirements</b>		
The student must make a minimum grade of C- in the following:		
MST 111	Calculus with Analytic Geometry I	4
STA 111	Elementary Probability and Statistics ****	4

\* *Co-requisite hours are not counted towards these 30 hours in economics.*

\*\* *Students must receive a grade of C or higher in ECN 150 to enroll in ECN 205 or ECN 210, ECN 207 or ECN 211 and/or ECN 209.*

\*\*\* *A minimum grade of C- is required in ECN 205 or ECN 210, ECN 207 or ECN 211, and ECN 209. Additionally, only one of ECN 205 or ECN 210, and one of ECN 207 or ECN 211 can be counted towards the major.*

\*\*\*\* *Or similar course, including ANT 380, BIO 380, BEM 201, HES 262, SOC 271, or STA 311.*

In addition, students must achieve an overall 2.0 average in economics courses.

Economics majors are encouraged to take complementary courses in mathematics, the humanities, or other social sciences to sharpen their analytical skills and to acquire a broader understanding of important issues. The faculty adviser will assist each student in determining the particular combination of courses that satisfies his or her needs.

### Honors

Students who have a GPA of at least 3.0 overall and 3.3 in economics, and who complete the research course, ECN 399, will be considered

by the department faculty for the graduation distinction “Honors in Economics.”

## Economics, Minor

### Requirements

Prior to declaring the minor, students must have minimum grade C or AP credit in ECN 150. Consists of 18 hours, including:

Code	Title	Hours
ECN 150	Introduction to Economics	3
ECN 205 or ECN 210	Intermediate Microeconomics I * Intermediate Mathematical Microeconomics	3
ECN 207 or ECN 211	Intermediate Macroeconomics * Intermediate Mathematical Macroeconomics	3

\* Only one of ECN 205 or ECN 210, and one of ECN 207 or ECN 211 can be counted towards the minor.

The mathematics and minimum grade requirements for the minor are the same as for the major.

## Education (EDU)

Wake Forest University believes that the teaching profession is important to society and that its welfare is significantly affected by the quality of educational leadership. One of the important objectives of the University has been and continues to be the preparation of teachers. The University's commitment to quality in teacher education is demonstrated by selective admission to the program, a wide range of professional courses, and closely supervised internships appropriate to the professional development of students. The Wake Forest education programs are fully accredited by CAEP (Council for the Accreditation of Educator Preparation) and by the North Carolina Department of Public Instruction.

Prospective elementary teachers earn a major in education. Prospective secondary teachers of English, mathematics, biology, chemistry, and physics major in that discipline and minor in education. Prospective secondary social studies teachers major in a social studies-related discipline (such as history, political science, economics, sociology, or anthropology), complete content requirements, and minor in education. In addition to the professional program, the department provides elective courses open to all students.

## Teacher Licensure

The state of North Carolina issues the Initial Class A Teacher's License to graduates who have completed an approved program including the specified courses in their teaching fields and the prescribed courses in education, who meet licensure requirements, and who receive recommendations from the designated officials in their teaching areas and from the licensure officer.

## Admission Requirements

Admission involves filing an official application with the department's licensure officer, being interviewed, and being officially approved by the department. In addition, the state of North Carolina requires Teacher Education Program applicants to submit qualifying SAT, ACT, or Praxis core scores before being formally admitted.

All students are required to have a 2.7 or better GPA before being formally accepted to the Teacher Education Program. Formal acceptance into the program should take place by April 1 of the junior year for secondary students and by January 1 of the junior year for elementary students.

## Program Area Goals

The goals and objectives for each licensure area are available in the office of the Department of Education.

## Course Requirements

The approved program of teacher education requires candidates to complete successfully a series of professional education courses. The exact sequence of professional and academic courses varies with a student's particular program and is determined by the adviser in conference with the candidate.

## Student Teaching

Prerequisites for registering for student teaching include:

1. senior, graduate, or special student classification
2. completion of prerequisite courses
3. formal admission to the Teacher Education Program

Students are assigned to student-teaching opportunities by public school officials on the basis of available positions and the professional needs of the student and the public school system. One semester of the senior year is reserved for the student-teaching experience. Students may not take courses outside the education department during this semester without the approval of the department chair.

## Exit Requirements

Students must maintain at least a 2.7 GPA while enrolled in the Teacher Education Program. Candidates for professional licensure must pass all appropriate state required standardized tests.

## College to Career Courses

EDU 120, EDU 220, EDU 320, EDU 360, and EDU 370 compose the five-course “College-to-Career” strand of courses.

Code	Title	Hours
EDU 120	Personal Framework for Career Exploration (recommended for first-year students in their second semester and sophomores)	1.5
EDU 220	Options in the World of Work (recommended for first-year students in their second semester and sophomores)	1.5
EDU 320	Strategic Job Search Processes (recommended for juniors and seniors)	1.5
EDU 360	Professional and Life Skills (open only to seniors)	1.5
EDU 370	Professional Experience in the Engaged Liberal Arts	3
EDU 299	Career Planning *	1.5

\* EDU 299 is a survey course containing elements of EDU 120, EDU 220, and EDU 320. It is reserved for juniors and seniors who have not had an opportunity to take the recommended four-course strand.

## Contact Information

Department of Education (<http://college.wfu.edu/education/>)  
Tribble Hall B201, Box 7266  
Phone 336-758-5341

## Programs

### Major

- B.A. in Elementary Education

### Minors

- Minor in Secondary Education
- Minor in Schools, Education, and Society

## Courses

### Education (EDU)

#### EDU 101. Issues and Trends in Education. (3 h)

Educational issues and trends with a focus on K-12 schools and teachers. Focus will vary by instructor. (D)

#### EDU 103A. Preparing for Community Engagement. (1.5 h)

Prepares students to extend their education beyond the classroom setting. Includes a focus on community-engaged service, mentoring, tutoring, teaching, and learning. Pass/Fail only.

#### EDU 103B. Participating in Community Engagement. (1.5 h)

Allows students to learn more about and participate in community-engaged service as part of a tutoring/mentoring practicum experience. Pass/Fail only. P-POI.

#### EDU 111. Special Topics. (1.5 h)

A survey of topics in education. Focus will vary by instructor.

#### EDU 120. Personal Framework for Career Exploration. (1.5 h)

First course in the College to Career series. Focuses on student self-assessment including personal attributes such as values, interests, personality/temperament, strengths, and beliefs. Begins the process of connecting student attributes with the exploration of options in the world of work. Open to all students, but designed especially for first- and second-year students. Students may not enroll in EDU 120 and EDU 299 in the same semester. Half semester.

#### EDU 201. Educational Policy and Practice. (3 h)

Philosophical, historical and sociological foundations of education, including analysis of contemporary accountability systems. (CD, D)

#### EDU 201L. Field Lab I. (2 h)

Practical experiences in classrooms with focus on school and society. Weekly public school experience and seminar. Pass/Fail only. Service Learning. P or C - EDU 201, or POI.

#### EDU 202. Field Experience One. (2 h)

Practical experiences in classrooms. Weekly public school experience and seminar. Pass/Fail only.

#### EDU 203. Methodology and Management Lab. (2 h)

Elementary education students observe classroom pedagogy and gain teaching experience in a diverse elementary school classroom through weekly observations and WFU seminars. Service Learning. Pass/Fail only. P- POI.

#### EDU 204. Integrating Literacy, Technology and the Arts across the Elementary Curriculum. (2 h)

Practical strategies for integrating literacy, technology and the arts in all areas of the elementary curriculum, including math, science, social studies and health. C-EDU 250.

#### EDU 205A. Developing Literacy and Communication Skills in Elementary Schools, K-2. (2 h)

Implementing research-based strategies for teaching and assessing reading, writing, listening and speaking in grades K-2. P-POI.

#### EDU 205B. Developing Literacy and Communication Skills in Elementary Schools, Grades 3-6. (2 h)

Implementing research-based strategies for teaching and assessing reading, writing, listening and speaking in grades 3-6. P-POI.

#### EDU 206. Assessment for Positive Student Outcomes. (2 h)

An exploration of K – 6 assessment models and strategies to support positive student outcomes. C-EDU 250.

#### EDU 220. Options in the World of Work. (1.5 h)

Second course in the College to Career series. Explores structure of the world of work, job functions and roles. Focus on nature and expectations of the world of work, including exploration of opportunities aligned with interests of students, and correlation between careers and education, career trajectories, graduate school, employment trends and the unique role work plays in creating meaning in the life of the individual. Open to all students, but designed for first and second year students. Students may not enroll in EDU 220 and EDU 299 in the same semester. Half semester. P or C-EDU 120 or POI.

#### EDU 221. Children's Literature. (2 h)

A survey of the types and uses of literature appropriate for elementary grades, including multicultural literature.

#### EDU 222. Integrating the Arts and Movement into the Elementary Curriculum. (2 h)

A survey of the materials, methods, and techniques of integrating the arts and physical development into the elementary curriculum. P-POI.

#### EDU 223. Theatre in Education. (3 h)

Practical experience for theatre and education students to work together with children in the classroom using theatre to teach core curriculum. Emphasis on methods and techniques as well as the development and implementation of creative lesson plans. Weekly public school teaching experience and seminar. Also listed as THE 270.

#### EDU 231. Adolescent Literature. (3 h)

A survey of literature that centers on the lives of adolescents and young adults. Attention is given to the reading and interpretation of classic and contemporary literature across genres.

#### EDU 236. Creativity, Innovation, and Entrepreneurial Thinking in 21st Century Education. (2 h)

Helps students recognize economic, business, and education changes brought about by increased globalization, the opportunities and challenges associated with globalization, and the need to develop human capacity for success in a global economy that values innovators and entrepreneurs. Designed for any student who is interested in exploring the intersections among the following major course topics: Creativity, Innovation, Entrepreneurial Spirit, Education and Globalization.

#### EDU 250. Student Teaching/Seminar. Elementary. (10 h)

Supervised teaching experience in grades K-6. Full-time. Includes a weekly reflective seminar. Service Learning. Pass/Fail only. P- POI.

**EDU 271. Geography: The Human Environment. (3 h)**

A survey of the geography of human activity as it occurs throughout the world. Emphasis is placed on current problems related to population, resources, regional development, and urbanization. Credit not allowed for both EDU 271 and 274.

**EDU 272. Geography Study Tour. (3 h)**

A guided tour of selected areas to study physical, economic, and cultural environments and their influence on man. Background references for reading are suggested prior to the tour. Offered in the summer. (CD)

**EDU 273. Geography: The Natural Environment. (3 h)**

A systematic study of the major components of physical geography with special emphasis on climate and topography.

**EDU 274. Environmental Geography. (3 h)**

A systematic study of major environmental issues on a global scale with an exploration of implications and possible solutions. Credit not allowed for both EDU 274 and 271.

**EDU 281. Public Life and the Liberal Arts. (3 h)**

Devoted to topics of abiding significance. Fundamental dilemmas and resolutions associated with each topic will be examined through a consideration of their treatment in the liberal arts tradition. Politics and the Arts, and Theory and Practice in Public Life are representative topics.

**EDU 293. Elementary School Curriculum. (2 h)**

Seminar in which student teachers reflect on all aspects of the elementary school curriculum, including meeting the needs of diverse learners, lesson planning, best practices, classroom management and leadership.

**EDU 294. Teaching Elementary Language Arts. (3 h)**

Methods and materials for teaching language arts, including adaptations for diverse and exceptional learners. P-POI.

**EDU 295. Teaching Elementary Social Studies. (2 h)**

Methods and materials for teaching social studies, including adaptations for diverse and exceptional learners. P-POI.

**EDU 296. Elementary Mathematics Methods: Inquiry Teaching and Learning. (3 h)**

Methods and materials for teaching elementary mathematics content, including adaptations for diverse and exceptional learners. P-POI.

**EDU 298. Elementary Science Methods: Inquiry Teaching and Learning. (3 h)**

Methods and materials for teaching elementary science content, including adaptations for diverse and exceptional learners. P-POI.

**EDU 299. Career Planning. (1.5 h)**

Covers all of the three components of the career-planning process: (1) personal assessment of work-related values, interests and skills; (2) exploration of career options; and (3) resume writing, interviewing, and job-search skills. Junior or senior standing only. Students may not receive credit for both EDU 320 and EDU 299. Students may not enroll in EDU 120 and EDU 299 in the same semester. Students may not enroll in EDU 220 and EDU 299 in the same semester. Half semester.

**EDU 300. School Leadership. (1 h)**

Development of leadership skills within the context of school and professional learning communities. P-EDU 250.

**EDU 303. History of Western Education. (3 h)**

Educational theory and practice from ancient times through the modern period, including American education.

**EDU 304. Social Justice Issues in Education. (3 h)**

This course facilitates exploration of issues of social justice and schooling from both theoretical and practical perspectives. It includes a focus on multi-cultural education, global awareness, issues of equity in school funding, urban and rural education, poverty, and marginalized populations. (CD)

**EDU 305. The Sociology of Education. (3 h)**

A study of contemporary educational institutions. This course examines such issues as school desegregation, schooling and social mobility, gender equity, and multiculturalism.

**EDU 307. Instructional Design, Assessment, and Technology. (3 h)**

Introduction to contemporary technologies and their applications for supporting instruction, assessment, and professional practice. P-EDU 311.

**EDU 308. School and Society. (3 h)**

A study of continuity and change in educational institutions, including analysis of teachers, students, curriculum, evaluation, contemporary problems, and reform movements.

**EDU 309L. Introduction to Secondary Education. (2 h)**

Practical experiences in classrooms with focus on secondary classrooms and learners. Weekly public school experience and seminar. Pass/Fail only. Service Learning.

**EDU 310. Race, Class, and Gender in a Color-blind Society. (3 h)**

An examination of issues surrounding race, class, and gender in the United States. Topics include income and wealth, theories of discrimination, public education, gender bias, and patterns of occupational and industrial segregation. Also listed as AES 310.

**EDU 311. Learning and Cognitive Science. (3 h)**

Theories and principles of cognition applied to teaching and learning. (CD, D)

**EDU 312. Teaching Exceptional Children. (3 h)**

Surveys the various types of learning differences in K-6 students. Emphasis is on effective teaching and assessment techniques to support diverse learner needs. Students tutor exceptional learners twice a week and complete a research case study on one student. Service Learning. P-POI.

**EDU 313. Human Growth and Development. (3 h)**

A study of the intellectual, emotional, and physical components of growth from birth to adolescence, with special concern for the educational implications of this process.

**EDU 315. Literacy Interventions. (3 h)**

Strategies for assessing the literacy skills of students who struggle with reading and writing and providing them with appropriate interventions. Students attend seminars focused on diagnosis and remediation, provide remedial instruction for one student, and complete a research case study on that student. Service Learning.

**EDU 320. Strategic Job Search Processes. (1.5 h)**

Third course in the College to Career series. Provides students with the fundamental knowledge, strategies, and skills required to conduct an effective job search including professional written and verbal communication; interviewing techniques; networking and other job search strategies; the branding and marketing of oneself; and evaluating offers and negotiation. Half semester. P-EDU 120 and 220 or POI.

**EDU 330. Fathers and Daughters. (3 h)**

Explores father-daughter relationships in contemporary American society through an interdisciplinary lens of film, literature, music, theater, media, and social science research. P-sophomore standing.

**EDU 337. TESOL Linguistics. (3 h)**

An introduction to the theoretical and practical linguistics resources and skills for teaching English to speakers of other languages (TESOL) within the U.S. or abroad. Also listed as LIN 337. P-LIN/ANT 150 or ENG 304; knowledge of a second language is recommended.

**EDU 351. Adolescent Psychology. (3 h)**

An introduction to theories of adolescent psychology as related to teaching and counseling in various settings. The readings emphasize researchers' suggestions for parenting, teaching, and counseling adolescents between the ages of thirteen and nineteen.

**EDU 353. Language in Education. (3 h)**

This seminar explores the role of language in education contexts. Topics include the study of bilingual and bicultural education, second language education, cross-cultural education, and communication in the classroom. Service-learning component. Also listed as ANT 353. (CD)

**EDU 354. Content Pedagogy. (3 h)**

Methods, materials, and techniques used in teaching particular secondary subjects (English, mathematics, science, second languages, social studies). P-POI.

**EDU 354L. Field Lab III. (2 h)**

Practical experiences in classrooms with focus on pedagogy and content. Weekly public school experience and seminar. Service Learning. Pass/Fail only. C-EDU 354.

**EDU 358. Studies in Contemporary Leadership. (3 h)**

An examination of contemporary leadership theory and its various applications in society. Students engage in practical leadership exercises, read on a variety of leadership topics, and develop their own philosophy of leadership. A twenty-five contact hour internship is required.

**EDU 360. Professional and Life Skills. (1.5 h)**

Fourth course in the College to Career series. Transition to life and work after college. Discusses work ethics and etiquette, work relationships, and ongoing career management. Also covers personal life skills such as budgeting and financial management, stress management, and avocations. Course applies liberal arts education to successful, meaningful life after college, including creation of an e-portfolio demonstrating professional competencies gained through the course of their Wake Forest experience. Senior standing only. Half semester.

**EDU 364L. Field Lab IV. (9 h)**

Supervised teaching internship in grades 9-12 (K-12 for foreign language). Full-time, 15-week field experience. Service Learning. Pass/Fail only. P-POI. C-EDU 365.

**EDU 365. Professional Development Seminars. (3 h)**

Analysis and discussion of problems and issues in secondary school teaching. Examination of research and practice-based strategies. Pass/Fail only. C-EDU 364L.

**EDU 368. Professional Experiences in Education. (3 h)**

This course offers students a placement in an educational setting under the supervision of a professional mentor. During this internship, student examine a critical topic in a local school, a community agency, a non-profit organization, or other educational setting. P-minimum gpa of 2.7 and POI.

**EDU 370. Professional Experience in the Engaged Liberal Arts. (3 h)**

This course offers students an opportunity to develop professional experience while exploring the value of their liberal arts education. Students will develop a professional plan and capture evidence of their own impact using the tools of the engaged liberal arts. During this internship, students will examine a critical topic related to leadership or professional development. P-POI.

**EDU 373. Comparative and International Education. (3 h)**

A study of various historical, political, economic, cultural, and social issues shaping education in selected countries throughout the world. The course aims to expand student understanding of differing educational and pedagogical structures and comparatively investigate educational issues around the globe. (CD)

**EDU 374. Student Teaching Seminar. (1.5 h)**

Analysis and discussion of problems and issues in the teaching of particular secondary subjects (English, mathematics, science, second languages, social studies). Emphasis on the application of effective instructional methods and materials.

**EDU 377. Literacy in the 21st Century. (3 h)**

This course examines the impact of emerging literacy trends on 21st century students in a digital, global world.

**EDU 381. Special Needs Seminar. (1 h)**

Analysis and discussion of practical problems and issues in the teaching of special needs students in the secondary classroom. Topics include reading and writing in the content area, inclusion, and evaluation. Pass/Fail only.

**EDU 382. Teaching Elementary Reading. (3 h)**

Methods and materials for teaching reading, including adaptations for diverse and exceptional learners. P-POI.

**EDU 383. Classroom Management Seminar. (1 h)**

Examination of research and practice based strategies for secondary school classroom management and discipline. Pass/Fail Only.

**EDU 385. Diversity Seminar. (1 h)**

Exploration of multi-cultural issues and relevant Spanish language and cultural teaching practices essential for classroom communication. Pass/Fail only.

**EDU 387. Tutoring Writing. (1.5 h)**

Introduction to composition theory and rhetoric with a special emphasis on one-to-one tutoring techniques. Students will analyze their own writing process and experiences, study modern composition theory, and practice tutoring techniques in keeping with these theories. Strongly recommended for those interested in working in the Writing Center as peer tutors. A student may not receive credit for both EDU 387 and WRI 341.

**EDU 388. Writing Pedagogy. (3 h)**

This course blends theory and practice, providing students from all content areas with a foundational understanding of writing-pedagogy methods and approaches. Topics of study will include writing across the curriculum, writing research, and assessment of writing.

**EDU 390. Methods and Materials for Teaching Foreign Languages (K-6). (3 h)**

A survey of the basic materials, methods, and techniques of teaching foreign languages in the elementary and middle grades. Emphasis is placed on issues and problems involved in planning and implementing effective second language programs in grades K-6.

**EDU 391. Teaching the Gifted. (3 h)**

An investigation of theory and practice pertinent to teachers of the gifted.

**EDU 392. The Psychology of the Gifted Child. (3 h)**

A discussion of giftedness and creativity in children and the relationship of those characteristics to adult superior performance. Topics to be covered include a history of the study of precocity, methods and problems of identification, the relationship of giftedness and creativity, personality characteristics and social-emotional problems of gifted children, and the social implications of studying giftedness.



**EDU 393. Individual Study. (1-3 h)**

A project in an area of study not otherwise available in the Department of Education. Permitted upon departmental approval of petition presented by a qualified student.

**EDU 394. Internship in Education of the Gifted. (3 h)**

An intensive period of observation and instruction of gifted students. Readings and directed reflection upon the classroom experience will be used to develop a richer understanding of such a special school setting.

**EDU 395. Teaching Diverse Learners. (3 h)**

This course addresses diversity in the classroom, particularly the needs of English Learners (EL) and exceptional children (EC). Examines differentiated instruction with appropriate instructional and behavioral strategies to meet the needs of all students.

## Faculty

**Chair** Alan Brown

**Francis P. Gaines Professor** Patricia M. Cunningham

**Professors** Adam M. Friedman, Leah P. McCoy, Linda N. Nielsen

**Associate Professors** R. Scott Baker, Alan Brown, Ann Cunningham, Dónal Mulcahy

**Assistant Professors** Debbie French, Danielle Parker-Moore

**Associate Professors of the Practice** Brian Calhoun, Heidi Robinson

**Associate Teaching Professor** Ali Sakkal

**Clinical Visiting Instructor** Laura Bilton

**Teacher-Scholar Postdoctoral Fellow** Colleen Fitzpatrick

## Elementary Education, B.A.

### Requirements

The elementary education major requires the following courses:

Code	Title	Hours
<b>Required Major Courses</b>		
EDU 201	Educational Policy and Practice	3
EDU 201L	Field Lab I	2
EDU 203	Methodology and Management Lab	2
EDU 205A	Developing Literacy and Communication Skills in Elementary Schools, K-2	2
EDU 205B	Developing Literacy and Communication Skills in Elementary Schools, Grades 3-6	2
EDU 206	Assessment for Positive Student Outcomes	2
EDU 250	Student Teaching/Seminar: Elementary	10
EDU 293	Elementary School Curriculum	2
EDU 295	Teaching Elementary Social Studies	2
EDU 296	Elementary Mathematics Methods: Inquiry Teaching and Learning	3
EDU 298	Elementary Science Methods: Inquiry Teaching and Learning	3
EDU 300	School Leadership	1
EDU 307	Instructional Design, Assessment, and Technology	3
EDU 311	Learning and Cognitive Science	3
EDU 312	Teaching Exceptional Children	3
EDU 395	Teaching Diverse Learners	3

A minimum grade of C in each course attempted in education is required for graduation with a major.

## Schools, Education, and Society, Minor Requirements

The minor in Schools, Education, and Society requires 17 hours:

Code	Title	Hours
EDU 201	Educational Policy and Practice	3
EDU 201L	Field Lab I	2
EDU 311	Learning and Cognitive Science	3
EDU 368	Professional Experiences in Education	3
Select two of the following:		6
EDU 223	Theatre in Education	
EDU 231	Adolescent Literature	
EDU 304	Social Justice Issues in Education	
EDU 305	The Sociology of Education	
EDU 307	Instructional Design, Assessment, and Technology	
EDU 308	School and Society	
EDU 310	Race, Class, and Gender in a Color-blind Society	
EDU 337	TESOL Linguistics	
EDU 354	Content Pedagogy	
EDU 373	Comparative and International Education	
EDU 377	Literacy in the 21st Century	
EDU 388	Writing Pedagogy	
EDU 395	Teaching Diverse Learners	

This minor is intended for students who have an interest in education but who are not pursuing a teaching license. However, any student who wishes to major in elementary education or pursue the licensure minor in secondary education and also undertake the minor in Schools, Education, and Society must complete at least nine additional, unique hours of coursework, including EDU 368 and two designated education electives. Some courses are not offered every semester; students should plan ahead in order to fulfill all requirements.

## Secondary Education, Minor Requirements

The Licensure minor in secondary professional education requires 30 hours:

Code	Title	Hours
EDU 201	Educational Policy and Practice	3
EDU 201L	Field Lab I	2
EDU 307	Instructional Design, Assessment, and Technology	3
EDU 311	Learning and Cognitive Science	3
EDU 309L	Introduction to Secondary Education	2
EDU 354	Content Pedagogy	3
EDU 364L	Field Lab IV	9

EDU 365	Professional Development Seminars	3
EDU 395	Teaching Diverse Learners	3
Select a major in one of the following secondary license areas:		
English		
Mathematics		
Science		
Social Studies		

## Exit Requirements

Students must maintain at least a 2.7 GPA while enrolled in the Teacher Education Program. Candidates for professional licensure must pass all appropriate state required standardized tests.

## Minor in English Education

33 hours, including:

Code	Title	Hours
ENG 265	British Literature before 1800	3
ENG 266 or ENG 275	British Literature 1800 to the Present American Literature	3

Select two pre-1800 British literature courses

Select one 300-level English course from Genre and Aesthetics

Select one 300-level English course from History and Literary History

Select one 300-level English course from Culture

Select one 300-level English course from Single Author

Select at least one 200-300 level writing or creative writing course

Select at least one 300 level course matching the following criteria:

American Literature	
Shakespeare	
Multicultural or World Literature	
Linguistics or Grammar	
Poetry, Theatre/Drama, or Film	

Mathematics

Includes:

Code	Title	Hours
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 121	Linear Algebra I	4
MST 321	Modern Algebra I	3
MST 331	Geometry	3
MST 357	Probability	3

Select three other courses beyond MST 113

## Science

Licensure in the individual fields of science: biology (34 hours), chemistry (34.5-35.5 hours for BA), and physics (25 hours). All courses must be from the same courses required for majors in those fields.

## Social Studies

30 hours, including:

Code	Title	Hours
<b>History</b>		
Select six hours from European or World History		6
Select six hours from U.S. History		6
Select six hours from Nonwestern History		6
<b>Social Sciences</b>		
Select one course from Economics		3
Select one course from Geography		3
Select one course from Political Science		3
Select one course from Anthropology or Sociology		3

## Engineering (EGR)

The mission of the engineering major is to educate students in an engineering curriculum that embraces and supports the unique culture of Wake Forest by combining the liberal arts core, innovative entrepreneurship, and engineering. The program provides an undergraduate engineering education that embodies the teacher-scholar ideal, emphasizing the close faculty-student engagement that is the hallmark of the Wake Forest community. Our goal is to attract enthusiastic students from around the US and the world who will make important contributions to solving society's most pressing problems, fulfilling the *Pro Humanitate* motto of Wake Forest University.

## Declaring a Major

Students must complete a minimum of 40 credit hours at WFU and meet with an Engineering Faculty or Engineering Academic Advisor to submit the 'Declaration of Major in Engineering' form. All students majoring in Engineering will be assigned an Engineering Faculty Major Advisor. Note that when a student declares a major or minor, the requirements for the major or minor that are in effect *at the time* of declaration will apply. See the Requirements for Degrees section for further details.

## Study Abroad

Students considering study abroad should consult with Engineering Department faculty. The second year or Fall of the third year are the most flexible semesters for B.S. Engineering students to study abroad.

## Contact Information

Department of Engineering (<http://college.wfu.edu/engineering/>)  
Wake Downtown  
455 Vine Street  
Bldg 60 South, Rm 460X  
Phone 336-702-1926

## Programs Major

- B.S. in Engineering

## Minor

- Minor in Engineering

## Courses

### Engineering (EGR)

**EGR 111. Introduction to Engineering Thinking and Practice. (4 h)**

Introduction to the study and practice of engineering, systems thinking, design, research, creative and analytical problem solving practices, and engineering for humanity. With laboratory.

**EGR 112. Introduction to Engineering Measurement and Analysis. (4 h)**

Exploration of tools, processes, and quantitative and qualitative analysis for modern engineering practice. With laboratory.

**EGR 113. Integrated Sciences. (4 h)**

An integrated basic science course covering topics in the biological, chemical, and physical sciences. With laboratory.

**EGR 211. Materials and Mechanics. (4 h)**

Fundamentals of materials and mechanics (statics and dynamics) for engineering applications. With laboratory. P-CHM 111/111L, EGR 111, 112, MST 111, PHY 113. P or C-MST 112.

**EGR 212. Transport Phenomena. (4 h)**

An integrated course in the fundamentals of thermodynamics, fluid mechanics, and heat transfer with emphasis on principles of conservation and transport of mass, energy, and momentum. With laboratory. P-CHM 111/111L, EGR 111, 112, MST 111, 112, PHY 113. P or C-MST 113.

**EGR 213. Mechanical Computer Aided Design I. (2 h)**

Introduction to Computer Aided Design (CAD) for mechanical assemblies including design planning additive and subtractive manufacturing techniques. P-EGR 111.

**EGR 214. Embedded Microcontroller Systems. (2 h)**

Examination of the structure of digital electronic systems with specific focus on microcontroller architectures for embedded system applications, as well as interfacing with analog and digital peripherals. With laboratory. P-EGR 111 or EGR 112 and CSC 111.

**EGR 280. Projects with Engineering for Non-Majors. (1-4 h)**

Specialized and focused learning via experiential projects. May be repeated for credit.

**EGR 281. Introductory Projects with Engineering for Majors. (1-4 h)**

Specialized and focused learning via experiential projects. Does not count towards engineering technical elective credit. May be repeated for credit.

**EGR 301. Special Topics in Engineering. (1-4 h)**

Seminar and/or lecture and/or project-based and/or laboratory courses in selected topics. Does not count towards engineering technical elective credit unless a designation of "Technical Elective" is noted. May be repeated if the course title changes.

**EGR 311. Control Systems and Instrumentation. (4 h)**

Fundamentals of circuits and semiconductor electronics as applied to the analysis and design of engineering instrumentation and control systems. With laboratory. P-EGR 211, 212, and MST 113. P or C-MST 205.

**EGR 312. Computational Modeling in Engineering. (4 h)**

Fundamentals of computational problem solving tools (programming, systems modeling, numerical methods) for diverse engineering applications, with consideration of the economic and ethical outcomes of decisions that are made using such techniques. With laboratory. P-EGR 211, 212, MST 113, 205. (STA 111 highly encouraged but not required).

**EGR 313. Capstone Design I. (1 h)**

The first course of the capstone design experience. C-EGR 311, 312.

**EGR 314. Capstone Design II. (4 h)**

The second course of the capstone design experience. P-EGR 313.

**EGR 315. Capstone Design III. (4 h)**

The third course of the capstone design experience. P-EGR 314.

**EGR 316. Mechanical Computer Aided Design II. (2 h)**

Advanced Computer Aided Design (CAD) for mechanical systems and stress/strain analysis with consideration of material properties and their role in manufacturability. P-EGR 211.

**EGR 317. Renewable Energy Systems. (2 h)**

Fundamentals of renewable energy systems, including wind, solar, biomass, and hydroelectric with economics evaluation and understanding technological innovations. With laboratory. P-EGR 212.

**EGR 318. Biomimetic Engineering. (2 h)**

Fundamentals of bioinspired design, functional modeling, and reverse engineering principles towards innovative solutions. P-EGR 211, 212.

**EGR 319. Environmental Engineering. (2 h)**

Fundamentals of environmental systems, including water supply, water quality, water treatment, air pollution, soil remediation, environmental risk assessment, and climate variation. Explore how engineers both leverage and sustain these systems and inform environmental and public health policies. With laboratory. P-EGR 211 and 212.

**EGR 320. Biomedical Engineering Applications. (2 h)**

An overview of biomedical engineering applications such as cardiovascular fluid mechanics, biomechanics, biomaterials, tissue engineering, signal processing and instrumentation, and biomedical ethics. With laboratory. P-EGR 211, 212, and MST 205.

**EGR 321. Chemical Engineering Separations. (2 h)**

Theory and design of chemical separation processes, and related flow diagrams, by applying material and energy balances and chemical equilibria fundamentals. Includes distillation, liquid-liquid extraction, ion exchange, and gas absorption. With laboratory. P-EGR 212, MST 205, CHM 122 and 280.

**EGR 322. Materials Engineering and Characterization. (2 h)**

Relationships between atomic structure, microstructure, and observable properties of metallic, ceramic, and polymeric materials. Measurement and modification of material properties. With laboratory. P-EGR 211, MST 112, CHM 111 and 111L.

**EGR 323. Chemical Reaction Engineering. (2 h)**

Rates of homogeneous, catalytic, and biological reactions; reactor design and analysis, and related flow diagrams. With laboratory. P-EGR 212, MST 205, CHM 122 and 280.

**EGR 324. Hydrologic and Hydraulic Engineering. (2 h)**

Fundamentals of the hydrologic cycle, estimating hydrologic fluxes, watershed-scale modelling, and open channel hydraulics. With laboratory. P-EGR 212.

**EGR 325. Medical Product Design. (2 h)**

Fundamentals of innovative and user-centered product design processes. Use of clinical observations and client interviews to derive new medical device designs and analysis for improving system performance. With laboratory. P-EGR 211 and 212.

**EGR 326. Human Factors Engineering. (2 h)**

A systems approach to understanding human-machine interfaces, psychology of design, ergonomics, human error and system reliability. With laboratory. P-EGR 211 and 212.

**EGR 327. Microengineering. (2 h)**

An overview of microengineering systems and an exploration of how size affects critical scaling law parameters, material properties, fabrication techniques, design and use. With laboratory. P-EGR 211 and 212.

**EGR 328. Inverse Problems in Engineering. (2 h)**

Fundamental approaches and techniques in solving inverse problems using mathematical, numerical, and statistical formulations. Applications include satellite remote sensing of the earth and environment, medical imaging, image and signal processing, and machine learning. With laboratory. P-EGR 211, MST 113 and 205, and STA 111.

**EGR 329. Functional Advanced Materials Characterization. (2 h)**

Relationships between atomic structure, microstructure, and observable properties of functional and advanced materials. measurement and modification of material properties. With laboratory. P-EGR 211, MST 113, CHM 111 and 111L.

**EGR 330. Infrastructure Systems Design. (2 h)**

Explore principles of infrastructure systems through experiential learning and application of concepts to design or redesign a local system with consideration of technical, social, environmental, and economic factors. With laboratory. P-EGR 211 and 212.

**EGR 331. Thermal Fluid Systems. (2 h)**

Applying fundamentals of fluid mechanics, heat transfer, and thermodynamics across diverse engineering applications in the analysis and design of thermal fluid systems. With laboratory. P-EGR 212 and MST 205.

**EGR 332. Structural Engineering I. (2 h)**

An introduction to structural engineering systems and materials such as steel, wood, and concrete. Emphasis on understanding the load path within real structures and how that impacts their design. With laboratory. P-EGR 211.

**EGR 333. Tissue Engineering. (2 h)**

Fundamentals of biomaterials, stem cells, and imaging technologies to analyze novel tissue engineering applications. With laboratory. P-EGR 211, 212, BIO 111 or 114, CHM 111 and 111L or POI.

**EGR 334. Mobile Robotics. (2 h)**

Introduction to mobile robotics, from hardware (energy, locomotion, sensors) and software (signal processing, control, localization, trajectory planning, high-level control). With laboratory. P-EGR 211, 212 and 311.

**EGR 335. Field Programmable Gate Array (FPGA) Design and Implementation. (2 h)**

An introduction to field programmable gate array (FPGA) design and implementation. With laboratory. P-EGR 311.

**EGR 336. Healthcare Engineering. (2 h)**

Beyond biomedical engineering, engineers play a critical role in bettering healthcare systems via big data analytics, next generation technologies, translational science and engineering, precision medicine, and diagnostic AI. With laboratory. P-EGR 312.

**EGR 380. Fundamentals of Engineering Exam Prep. (1 h)**

Review of engineering fundamentals in preparation for Fundamentals of Engineering exam. P or C-EGR 311 and 312.

**EGR 381. Engineering Research. (1-4 h)**

Engineering research project conducted under the guidance of a research mentor. Does not count towards engineering technical elective credit unless a designation of "Technical Elective" is indicated. Upon completion and review of project deliverables, engineering technical elective credit may be granted. May be repeated for credit.

## Faculty

**Chair** Olga Pierrakos

**Professor** Olga Pierrakos

**Associate Professor** Michael Gross, Saami Yazdani

**Assistant Professors** Courtney Di Vittorio, Erin Henslee, Lauren Lowman, Kyle Luthy, Kyana Young

**Assistant Teaching Professor** Melissa Kenny

**Visiting Assistant Professor of Practice** Nick Lutzweiler

## Engineering, B.S.

### Requirements

The program for each student majoring in engineering is developed individually through consultation with the student's major adviser and leads to a bachelor of science in engineering. The degree is designed to meet ABET accreditation requirements:

1. a minimum of 30 semester credit hours of a combination of college-level mathematics and basic sciences with experimental experience
2. a minimum of 45 semester credit hours of engineering topics consisting of engineering sciences and engineering design and utilizing modern engineering tools\*
3. a broad education component that complements the technical content of the curriculum
4. a culminating design experience within the major

In meeting the minimum of 30 hours of basic science and mathematics, students must complete the following:

Code	Title	Hours
<b>Basic Science and Mathematics</b>		
CHM 111 & 111L	College Chemistry I and College Chemistry I Lab	4
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 205	Introduction to Linear Algebra and Differential Equations	4
PHY 113 & 113L	General Physics I and General Physics Lab	4
or PHY 123 & 123L	General Physics I - Studio Format and General Physics I - Studio Format Lab	

Basic sciences, according to ABET, consist of disciplines focused on knowledge or understanding of the fundamental aspects of natural phenomena such as chemistry, physics, and the life, earth, and space sciences. An integrated science course with a laboratory component will be offered by engineering, EGR 113, and can also count as a basic science course. For the remainder of the minimum 30 credit hours of basic science and mathematics topics, students have the flexibility to select mathematics and basic science elective credits that promote the student's progress toward the completion of a minor or other relevant interests. Students must consult with Engineering Department faculty to ensure that the elective mathematics and basic science credits of interest will count toward this requirement.

In meeting the minimum of 45 hours of engineering topics, students must complete the following:

Code	Title	Hours
EGR 111	Introduction to Engineering Thinking and Practice	4
EGR 112	Introduction to Engineering Measurement and Analysis	4
EGR 211	Materials and Mechanics	4
EGR 212	Transport Phenomena	4
EGR 311	Control Systems and Instrumentation	4
EGR 312	Computational Modeling in Engineering	4
EGR 313	Capstone Design I	1
EGR 314	Capstone Design II	4
EGR 315	Capstone Design III	4

A minimum of 12 additional credit hours in engineering topics must be satisfied through engineering technical electives and courses designated as engineering topics.\*

\* Computer science (CSC) topics may count as part of the minimum of 45 semester credit hours of engineering topics. Students interested in counting CSC courses must consult with Engineering Department faculty to ensure that the CSC course of interest will count toward this requirement.

To be well positioned for junior-level EGR coursework and to complete the degree in four years, students should complete the following courses during the first two years and should earn a minimum overall GPA of 2.0 in the following courses:

Code	Title	Hours
CHM 111 & 111L	College Chemistry I and College Chemistry I Lab	4
EGR 111	Introduction to Engineering Thinking and Practice	4
EGR 112	Introduction to Engineering Measurement and Analysis	4
EGR 211	Materials and Mechanics	4
EGR 212	Transport Phenomena	4
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 205	Introduction to Linear Algebra and Differential Equations**	4
or MST 121 & MST 251	Linear Algebra I and Ordinary Differential Equations	
PHY 113 & 113L	General Physics I and General Physics Lab	4
or PHY 123 & 123L	General Physics I - Studio Format and General Physics I - Studio Format Lab	

\*\* The substitution of MST 121 and MST 251 in place of MST 205 may be of particular interest to those students thinking of declaring a Mathematics Minor and/or graduate school in an engineering field.

Note that EGR 111 is not a pre-requisite for EGR 112, so either EGR 111 or EGR 112 can be taken first. Similarly, EGR 211 is not a pre-requisite for EGR 212 and EGR 311 not a pre-requisite for EGR 312, so either EGR 211 or EGR 212 can be taken first and either EGR 311 or EGR 312 can be taken first.

A typical, yet customizable, schedule for the BS Engineering major is:

Code	Title	Hours
<b>First Year</b>		
EGR 111	Introduction to Engineering Thinking and Practice	4
EGR 112	Introduction to Engineering Measurement and Analysis	4
CHM 111 & 111L	College Chemistry I and College Chemistry I Lab	4
MST 111	Calculus with Analytic Geometry I	4
MST 112	Calculus with Analytic Geometry II	4
PHY 113	General Physics I	4
or PHY 123	General Physics I - Studio Format	
<b>Second Year</b>		
EGR 211	Materials and Mechanics	4
EGR 212	Transport Phenomena	4
MST 113	Multivariable Calculus	4
MST 205	Introduction to Linear Algebra and Differential Equations	4
<b>Third Year</b>		
EGR 311	Control Systems and Instrumentation	4
EGR 312	Computational Modeling in Engineering	4
EGR 313	Capstone Design I	1
EGR technical electives		
Math and/or Basic Science course		
<b>Fourth Year</b>		
EGR 314	Capstone Design II	4
EGR 315	Capstone Design III	4
EGR technical electives		
Math and/or Basic Science course		

Current lists covering all categories of approved courses are available in the Engineering Department and on its website. Additional courses and course updates may have been approved since the publication of this bulletin. The majority of engineering courses integrate theory and practice (e.g., labs, projects, studio) as well as personal and professional development skills.

## Honors

Qualified majors are considered for honors in engineering. Students should consult with Engineering Department faculty or the major adviser for additional details.

## Engineering, Minor Requirements

Requires at least 16 hours in engineering as well as PHY 113 and MST 111. EGR 111 and EGR 112 are required. The remaining eight hours of EGR credit must be at the 200-level or higher. A minimum overall GPA of 2.0 must be earned on all Wake Forest Engineering courses taken to complete the minor. The requirements for the minor are those that are in effect at the time of the declaration of the minor, as the curriculum and the departmental requirements may change slightly during the student's period of residence. Students interested in the minor should contact an Engineering Faculty or Engineering Academic Advisor.

## English (ENG)

The English department offers courses in three programs: Creative Writing (CRW), English Literature and Language (ENG), and Writing (WRI).

Journalism courses are offered by the journalism program as related subjects but do not count toward an English major or minor; they may be taken as electives regardless of the field of study in which a student majors. (See section on Journalism.)

## Contact Information

English Department (<http://college.wfu.edu/english/>)

Tribble Hall C201, Box 7387  
336-758-5383

## Programs

### Major

- B.A. in English

### Minors

- Minor in English
- Minor in Creative Writing
- Minor in Writing

## Courses

### Creative Writing Courses (CRW)

*WRI 111 or exemption therefrom is a prerequisite for any creative writing course.*

#### CRW 100. Introduction to Creative Writing. (3 h)

This workshop explores the fundamentals of writing poetry, fiction, and creative nonfiction. Students analyze the forms of each genre with an eye toward creating literary texts of their own. Through workshops and class discussions, students also learn how to revise their own writing and offer feedback on the work of classmates.

#### CRW 285. Poetry Workshop. (1.5, 3 h)

Craft course in the writing of poetry with an emphasis on developing, reading, and discussing student poems in a supportive classroom community. Study of poetic techniques, forms, and revision as well as the works of historical and/or contemporary poets.

#### CRW 286. Short Story Workshop. (1.5, 3 h)

Study of fundamental principles of short fiction writing; practice in writing; extensive study of short story form.

#### CRW 287. Literary Nonfiction Workshop. (3 h)

Study of the fundamental principles of literary nonfiction, with a focus on subgenres, techniques, and the works of important literary nonfiction writers.

#### CRW 300. Topics in Creative Writing. (3 h)

Workshop centering on theme instead of genre. Students study creative writing through the lens of ideas such as hybridity, ecology, and the visual. Through analyzing important texts, workshops, and class discussions, students hone their skills in fiction, poetry, and/or literary nonfiction, as well as improve their abilities to revise and offer feedback on classmates' work. May be repeated with permission. P-a CRW 100- or 200-level course or POI.

#### CRW 384. Playwriting. (3 h)

Examines the elements of dramatic structure and their representations in a variety of dramatic writings. Explores the fundamentals of playwriting through a series of writing exercises. Also listed as THE 360.

#### CRW 385. Advanced Poetry Workshop. (3 h)

Emphasis on reading and discussing student poems in terms of craftsmanship and general principles. May be repeated once. P-a CRW 100 or 200 course or POI.

#### CRW 386. Advanced Fiction Writing. (3 h)

Primarily a short-story workshop, with class discussion on issues of craft, revision, and selected published stories. May be repeated once. P-a CRW 100- or 200-level course or POI.

#### CRW 387. Advanced Literary Nonfiction Workshop. (3 h)

Emphasis on the theory and craft of creative nonfiction as well as on contemporary writers of creative nonfiction. May be repeated once. P-a CRW 100- or 200-level course or POI.

## English Courses (ENG)

*WRI 111 or exemption therefrom is a prerequisite or a co-requisite for any English course 150 or above. Any 3-credit ENG course numbered ENG 150-ENG 190, ENG 265, ENG 266, ENG 275, or ENG 301-ENG 396, except, ENG 386, ENG 388, and ENG 390 satisfies the Division II literature requirement. Students enrolled at Wake Forest may not take literature courses in English at other institutions to satisfy Division II requirements.*

#### ENG 101. The Discipline of English Studies. (1 h)

An opportunity to experience and reflect analytically in writing on the diverse cultural and intellectual life at Wake Forest, with an emphasis on literary studies, rhetorical studies, and creative writing events and topics. Pass/fail only. May not be repeated.

#### ENG 150. Literature Interprets the World. (3 h)

Introduction to ways literary artists shape experience, focusing on one topic or selected topics; primarily discussion; writing intensive. P or C-WRI 111 or exemption from WRI 111. (D)

#### ENG 165. Studies in British Literature. (3 h)

Emphasis on important writers representing different periods and genres; primarily discussion; writing intensive. P or C-WRI 111 or exemption from WRI 111. (D)

#### ENG 175. Studies in American Literature. (3 h)

Emphasis on important writers representing different periods and genres; primarily discussion; writing intensive. P or C-WRI 111 or exemption from WRI 111. (D)

#### ENG 185. Studies in Global Literature. (3 h)

Emphasis on important writers representing different periods and genres; primarily discussion; writing intensive. P or C-WRI 111 or exemption from WRI 111. (D)

#### ENG 190. Literary Genres. (3 h)

Emphasis on poetry, fiction, or drama; primarily discussion; writing intensive. P or C-WRI 111 or exemption from WRI 111. (D)

#### ENG 265. British Literature before 1800. (3 h)

Gateway course for the major. Significant works from the British literary tradition before 1800 and introduction to key ideas in literary interpretation. Required for all majors. (D)

#### ENG 266. British Literature 1800 to the Present. (3 h)

Gateway course for the major. Significant works from the British and postcolonial literary traditions since 1800. Either ENG 266 or ENG 275 required for all majors. (D)

**ENG 275. American Literature. (3 h)**

Gateway course for the major. Significant works from the American literary tradition. Either ENG 275 or ENG 266 required for all majors. (D)

**ENG 290. Foundations in Literary Criticism. (3 h)**

Considers figures and schools of thought significant in the history of literary criticism. Required for all majors. (D)

**ENG 298. WFU Press Internship. (1.5-3 h)**

Semester-length practical experience in literary publishing while working at WFU Press, the premier publisher of Irish poetry in North America. Interns learn aspects of editorial review, production, proofreading, marketing, and promotion. Students must submit a formal application through WFU Press before registering ([wfpres.wfu.edu](http://wfpres.wfu.edu)). Pass/Fail. Does not count toward the English Major or Minor. May be repeated once for credit.

**ENG 299. Individual Study. (1.5-3 h)**

Independent study with faculty guidance. Granted upon departmental approval of petition presented by a qualified student. May be repeated once for credit.

**ENG 301. Individual Authors. (3 h)**

Study of selected work from an important American or British author. May be repeated once for credit. (D)

**ENG 302. Ideas in Literature. (3 h)**

Study of a significant literary theme in selected works. May be repeated when the course is taught by a different professor on a different topic. (D)

**ENG 304. History of the English Language. (3 h)**

A survey of the development of English syntax, morphology, and phonology from Old English to the present, with attention to vocabulary growth.

**ENG 305. Old English Language and Literature. (3 h)**

An introduction to the Old English language and a study of the historical and cultural background of Old English literature, including Anglo-Saxon and Viking art, runes, and Scandinavian mythology. Readings from *Beowulf* and selected poems and prose. Fulfills pre-1800 British literature requirement. (D)

**ENG 308. Beowulf. (3 h)**

Intensive study of the poem; emphasis on language, translation skills and critical context. Fulfills pre-1800 British literature requirement. P-ENG 305 or POI. (D)

**ENG 309. Modern English Grammar. (3 h)**

A linguistics approach to grammar study. Includes a critical exploration of issues such as grammatical change and variation, the origins and effects of grammar prescriptions/proscriptions, the place of grammar instruction in education, and the politics of language authority.

**ENG 310. The Medieval World. (3 h)**

Examines theological, philosophical, and cultural assumptions of the Middle Ages through the reading of primary texts. Topics may include Christian providential history, drama, devotional literature, the Franciscan controversy, domestic life, and Arthurian romance. Fulfills pre-1800 British literature requirement. (CD - Depending on topic covered.) (D)

**ENG 311. The Legend of Arthur. (3 h)**

The origin and development of the Arthurian legend in France and England, with emphasis on the works of Chretien de Troyes and Sir Thomas Malory. Fulfills pre-1800 British literature requirement. (D)

**ENG 312. Medieval Poetry. (3 h)**

The origin and development of poetic genres and lyric forms of medieval vernacular poetry. Fulfills pre-1800 British literature requirement. (D)

**ENG 313. Roots of Song. (3 h)**

Interdisciplinary investigation of poetry and song in the Middle Ages and early Renaissance. Study of the evolution of poetic and musical genres and styles, both sacred and secular. Students must complete a project or projects on the technical or theoretical aspects of early song. Fulfills pre-1800 British literature requirement. Also listed as MUS 283. (D)

**ENG 315. Chaucer. (3 h)**

Emphasis on *The Canterbury Tales* and *Troilus and Criseyde*, with some attention to minor poems. Consideration of literary, social, religious, and philosophical background. Fulfills pre-1800 British literature requirement. (D)

**ENG 320. British Drama to 1642. (3 h)**

British drama from its beginning to 1642, exclusive of Shakespeare. Representative cycle plays, moralities, Elizabethan and Jacobean tragedies, comedies, and tragicomedies. Fulfills pre-1800 British literature requirement. Also listed as THE 320. (D)

**ENG 323. Shakespeare. (3 h)**

Thirteen representative plays illustrating Shakespeare's development as a poet and dramatist. Fulfills pre-1800 British literature requirement. Also listed as THE 323. (D)

**ENG 325. 16th-Century British Literature. (3 h)**

Concentration on the poetry of Spenser, Sidney, Shakespeare, Wyatt, and Drayton, with particular attention to sonnets and *The Faerie Queene*. Fulfills pre-1800 British literature requirement. (D)

**ENG 326. Studies in English Renaissance Literature. (3 h)**

Selected topics in Renaissance literature. Consideration of texts and their cultural background. Fulfills pre-1800 British literature requirement. May be repeated once for credit pending approval of instructor. (D)

**ENG 327. Milton. (3 h)**

The poetry and selected prose of John Milton, with emphasis on *Paradise Lost*. Fulfills pre-1800 British literature requirement. (D)

**ENG 328. 17th-Century British Literature. (3 h)**

Poetry of Donne, Herbert, Vaughan, Marvel, Crashaw; prose of Bacon, Burton, Browne, Walton. Consideration of religious, political, and scientific backgrounds.

**ENG 330. Restoration and 18th-Century British Literature. (3 h)**

Representative poetry and prose, exclusive of the novel, 1660-1800, drawn from Dryden, Behn, Swift, Pope, Johnson, and Wollstonecraft. Consideration of cultural backgrounds and significant literary trends. Fulfills pre-1800 British literature requirement. (D)

**ENG 333. Jane Austen. (3 h)**

An intensive study of the works of British novelist Jane Austen, and her cultural contexts.

**ENG 335. 18th-Century British Fiction. (3 h)**

Primarily the fiction of Defoe, Richardson, Fielding, Smollett, Sterne, and Austen. Fulfills pre-1800 British literature requirement. (D)

**ENG 336. Restoration and 18th-Century British Drama. (3 h)**

British drama from 1660 to 1780, including representative plays by Dryden, Etherege, Wycherley, Congreve, Goldsmith, and Sheridan. Fulfills pre-1800 British literature requirement. Also listed as THE 336. (D)

**ENG 337. Studies in 18th-Century British Literature. (3 h)**

Selected topics in 18th-century literature. Consideration of texts and their cultural background. Fulfills pre-1800 British literature requirement. (D)

**ENG 338. Studies in Gender and Literature. (3 h)**

Thematic and/or theoretical approaches to the study of gender in literature. (D)

**ENG 339. Studies in Sexuality and Literature. (3 h)**

Thematic and/or theoretical approaches to the study of sexuality in literature. (D)

**ENG 340. Studies in Women and Literature. (3 h)**

Women writers in society. (D)

**ENG 341. Literature and the Environment. (3 h)**

Studies of the relationship between environmental experience and literary representation. (D)

**ENG 344. Studies in Poetry. (3 h)**

Selected topics in poetry. (D)

**ENG 345. Studies in Fiction. (3 h)**

Selected topics in fiction. (D)

**ENG 346. Studies in Theatre. (3 h)**

Selected topics in drama. (D)

**ENG 347. Modern English and Continental Drama and the London Stage. (3 h)**

Explores the works of major playwrights of England and Europe from 1875 to the present. May also include contemporary production of classic plays. Emphasizes plays currently being presented in London theatres. Also listed as THE 266. Offered in London. (D)

**ENG 350. British Romantic Poets. (3 h)**

A review of the beginnings of Romanticism in British literature, followed by study of Wordsworth, Coleridge, Byron, Keats, and Shelley; collateral reading in the prose of the period. (D)

**ENG 351. Studies in Romanticism. (3 h)**

Selected topics in European and/or American Romanticism with a focus on comparative, interdisciplinary, and theoretical approaches to literature. (D)

**ENG 353. 19th-Century British Fiction. (3 h)**

Representative major works by Dickens, Eliot, Thackeray, Hardy, the Brontës, and others. (D)

**ENG 354. Victorian Poetry. (3 h)**

A study of Tennyson, Browning, Hopkins, and Arnold or another Victorian poet. (D)

**ENG 356. Literature of the Caribbean. (3 h)**

Readings include significant works by authors from the Caribbean and authors writing about the Caribbean. Critical, historical, and cultural approaches are emphasized. All texts are in English. (CD, D)

**ENG 357. Studies in Chicano/a Literature. (3 h)**

Writings by Americans of Mexican descent in relation to politics and history. Readings in literature, literary criticism, and socio-cultural analysis. Also listed as AES 357. (CD, D)

**ENG 358. Postcolonial Literature. (3 h)**

A survey of representative examples of postcolonial literature from geographically diverse writers, emphasizing issues of politics, nationalism, gender and class. (CD, D)

**ENG 359. Studies in Postcolonial Literature. (3 h)**

Examination of themes and issues in post-colonial literature, such as: globalization, postcolonialism and hybridity, feminism, nationalism, ethnic and religious conflict, the impact of the Cold War, and race and class. (CD, D)

**ENG 360. Studies in Victorian Literature. (3 h)**

Selected topics, such as development of genres, major authors and texts, and cultural influences. Readings in poetry, fiction, autobiography, and other prose. (D)

**ENG 361. Literature and Science. (3 h)**

Literature of and about science. Topics will vary and may include literature and medicine, the two culture debate, poetry and science, nature in literature, the body in literature. (D)

**ENG 362. Irish Literature in the Twentieth Century. (3 h)**

A study of modern Irish literature from the writers of the Irish Literary Renaissance to contemporary writers. Course consists of overviews of the period as well as specific considerations of genre and of individual writers. (D)

**ENG 363. Studies in Modernism. (3 h)**

Selected issues in Modernism. Interdisciplinary, comparative, and theoretical approaches to works and authors. (D)

**ENG 364. Advanced Studies in Literary Criticism. (3 h)**

Consideration of certain figures and schools of thought significant in the history of literary criticism. Builds on ENG 290 Foundations in Literary Criticism. (D)

**ENG 365. 20th-Century British Fiction. (3 h)**

A study of Conrad, Lawrence, Joyce, Forster, Woolf, and later British writers, with attention to their social and intellectual backgrounds. (D)

**ENG 366. James Joyce. (3 h)**

The major works by James Joyce, with an emphasis on *Ulysses*. (D)

**ENG 367. 20th-Century English Poetry. (3 h)**

A study of 20th-century poets of the English language, exclusive of the United States poets, are read in relation to the literary and social history of the period. (D)

**ENG 368. Studies in Irish Literature. (3 h)**

The development of Irish literature from the 18th century through the early 20th century in historical perspective, with attention to issues of linguistic and national identity. (D)

**ENG 369. Modern Drama. (3 h)**

Main currents in modern drama from 19th-century realism and naturalism through symbolism and expressionism. After an introduction to European precursors, focus is on representative plays by Wilde, Shaw, Synge, Yeats, O'Neill, Eliot, Hellman, Wilder, Williams, Hansberry, and Miller. (D)

**ENG 370. American Literature to 1820. (3 h)**

Origins and development of American literature and thought in representative writings of the Colonial, Revolutionary, and Federal periods. (D)

**ENG 371. American Ethnic Literature. (3 h)**

Introduction to the field of American ethnic literature, with special emphasis on post WWII formations of ethnic culture: Asian American, Native American, African American, Latino, and Jewish American. The course will highlight issues, themes, and stylistic innovations particular to each ethnic group and will examine currents in the still-developing American culture. (CD, D)

**ENG 372. American Romanticism. (3 h)**

Writers of the mid-19th century, including Emerson, Thoreau, Hawthorne, and Melville. (D)

**ENG 373. Literature and Film. (3 h)**

Selected topics in the relationship between literature and film, such as film adaptations of literary works, the study of narrative, and the development of literary and cinematic genres. (D)

**ENG 374. American Fiction before 1865. (3 h)**

Novels and short fiction by such writers as Brown, Cooper, Irving, Poe, Hawthorne, Melville, Stowe, and Davis. (D)



**ENG 375. American Drama. (3 h)**

A historical overview of drama in America, covering such playwrights as Boucicault, O'Neill, Hellman, Wilder, Williams, Inge, Miller, Hansberry, Albee, Shepard, Norman, Mamet, and Wilson. Also listed as THE 375. (D)

**ENG 376. American Poetry before 1900. (3 h)**

Readings and critical analysis of American poetry from its beginnings to the end of the 19th century, including Bradstreet, Emerson, Longfellow, Melville, and Poe, with particular emphasis on Whitman and Dickinson. (D)

**ENG 377. American Jewish Literature. (3 h)**

Survey of writings on Jewish topics or experiences by American Jewish writers. Explores cultural and generational conflicts, responses to social change, the impact of the Shoah (Holocaust) on American Jews, and the challenges of language and form posed by Jewish and non-Jewish artistic traditions. (CD, D)

**ENG 378. Literature of the American South. (3 h)**

Study of Southern literature from its beginnings to the present, with emphasis upon such major writers as Tate, Warren, Faulkner, O'Connor, Welty, and Styron. (D)

**ENG 379. Literary Forms of the American Personal Narrative. (3 h)**

Reading and critical analysis of autobiographical texts in which the ideas, style, and point of view of the writer are examined to demonstrate how these works contribute to an understanding of pluralism in American culture. Representative authors may include Hurston, Wright, Kingston, Angelou, Wideman, Sarton, Chuang Hua, Crews, and Dillard. (D)

**ENG 380. American Fiction 1865 to 1915. (3 h)**

Study of such writers as Twain, James, Howells, Crane, Dreiser, Wharton, and Cather. (D)

**ENG 381. Studies in African-American Literature. (3 h)**

Reading and critical analysis of selected fiction, poetry, drama, and other writings by American authors of African descent. (CD, D)

**ENG 382. Modern American Fiction, 1915 to 1965. (3 h)**

Includes such writers as Stein, Lewis, Anderson, Hemingway, Fitzgerald, Faulkner, Dos Passos, Wolfe, Wright, Ellison, Agee, Flannery O'Connor, and Pynchon. (D)

**ENG 385. 20th-Century American Poetry. (3 h)**

Readings of modern American poetry in relation to the literary and social history of the period. (D)

**ENG 386. Directed Reading. (1.5-3 h)**

A tutorial in an area of study not otherwise provided by the department; granted upon departmental approval of petition presented by a qualified student. May be repeated once for credit.

**ENG 387. African-American Fiction. (3 h)**

Selected topics in the development of fiction by American writers of African descent. Also listed as AES 387. (CD, D)

**ENG 388. Honors in English. (3 h)**

A conference course centering upon a special reading requirement and a thesis requirement. For senior students wishing to graduate with "Honors in English."

**ENG 389. African-American Poetry. (3 h)**

Readings of works by American poets of African descent in theoretical, critical, and historical contexts. Also listed as AES 389. (CD, D)

**ENG 390. The Structure of English. (3 h)**

An introduction to the principles and techniques of modern linguistics applied to contemporary American English.

**ENG 391. Studies in Postmodernism. (3 h)**

Interdisciplinary, comparative, and theoretical approaches to works and authors.

**ENG 393. Multicultural American Drama. (3 h)**

Examines the dramatic works of playwrights from various racial and ethnic communities such as Asian American, Native American, African American, and Latino. The course includes consideration of issues, themes, style, and form. Also listed as THE 376. (CD, D)

**ENG 394. Contemporary Drama. (3 h)**

Considers experiments in form and substance in plays from *Waiting for Godot* to the present. Readings will cover such playwrights as Beckett, Osborne, Pinter, Stoppard, Churchill, Wertebaker, Albee, Shepard, Mamet, Wilson, Soyinka, and Fugard. Also listed as THE 372. (D)

**ENG 395. Contemporary American Literature. (3 h)**

A study of post-World War II American poetry and fiction by such writers as Bellow, Gass, Barth, Pynchon, Lowell, Ashbery, Ammons, Bishop, and Rich. (D)

**ENG 396. Contemporary British Fiction. (3 h)**

Study of the British novel and short story, including works by Rushdie, Amis, Winterson and Ishiguro. (D)

**ENG 397. Internship in the Major. (1.5 h)**

Internship that involves both hands-on experience and academic study. Students will partner with a literature faculty member to integrate work in the community and engagement with his or her academic plan of study. P-POI.

**ENG 398. English Studies and the Professions. (1.5 h)**

A practicum course focused on career design and career planning, specific to career options in humanities fields. The course will broaden awareness of career opportunities available to English majors and minors. Pass-Fail Only. Cannot be repeated.

## Writing Courses (WRI)

*Any student with an AP score of 4 or 5, an IB, higher level, score of 6 or 7, or exemption by the department is exempt from WRI 111.*

*WRI 111 or exemption therefrom is a prerequisite for any Writing course above 111.*

**WRI 105. Introduction to Critical Reading and Writing. (3 h)**

Training in critical reading and expository writing. Frequent essays based on readings in a selected topic. Designed for students who want additional practice in making transition to college writing. Elective credit; does not satisfy the basic composition requirement.

**WRI 107. Foundations in Academic Research and Writing. (3 h)**

An introduction to college-level writing through sequenced writing assignments that will guide students through the writing processes, from summary to analysis. Emphasis on critical reading, argumentative writing, and research. Summer only; elective credit; does not satisfy the basic writing requirement.

**WRI 108. Introduction to Academic Writing. (3 h)**

An introduction to academic writing for English language learners. Designed for international students whose first language is not English as they make the transition to U.S. university writing. Emphasis is placed on cultural assumptions that underlie U.S. college writing, as well as, grammar, academic phrasing, and organizational strategies.

**WRI 111. Writing Seminar. (4 h)**

A seminar that introduces students to the study and practice of college writing; discussion-based; theme-driven; writing-intensive; required conferencing.

**WRI 210. Advanced Academic Writing. (3 h)**

An advanced composition course focused on the study of academic writing. Students consider the rhetorical and linguistic features of research-based writing, examine methods of research and evidence-gathering, and analyze argumentation across fields. Enrollment limited. P - WRI 111 or exemption from WRI 111.

**WRI 212. Literary Nonfiction: Art of the Essay. (3 h)**

Reading, writing, and analysis of the essay. Consideration of the rise and evolution of various forms of the essay; inclusive of essayists from a variety of disciplines. Enrollment limited. P - WRI 111 or exemption from WRI 111.

**WRI 306. Special Topics in Rhetoric and Writing. (1.5, 3 h)**

Study of significant rhetorical or writing theories and practices focused on one area of study. May be repeated once for credit.

**WRI 307. Contemporary Theory of Rhetoric and Writing. (1.5, 3 h)**

Study of key historical developments and theories in the current field of rhetoric and writing studies since its 20th-century inception.

**WRI 310. Interaction in Language: Introduction to Written Discourse Studies. (3 h)**

Analysis of theoretical traditions in discourse studies, including Pragmatics, Analysis of Institutional Talk, Genre Analysis, and Corpus Linguistics, designed to provide students with new approaches and tools with which to question, investigate, and critique how language works in discourses that are meaningful to them.

**WRI 320. Writing in and about Science: Scientists as Writers and Writers as Scientists. (3 h)**

Reading, writing, and analysis of scholarly and popular science writing. Consideration of scientists as writers and rhetoricians, namely, the varied purposes and audiences for which scientists and science writers compose. Enrollment limited. P - WRI 111 or exemption from WRI 111.

**WRI 340. Practice in Rhetoric and Writing. (3 h)**

Training and practice in the reading and writing of expository prose. Students study the uses of rhetoric to frame arguments and marshal evidence, then learn to practice these skills in their own writing of expository prose.

**WRI 341. Writing Center Pedagogy. (3 h)**

Introduction to composition pedagogy and writing center theory and practices, with special emphases on one-to-one and small group peer tutoring techniques. The course includes classroom-based work - reading, writing, responding, discussing, and exploring instruction and consultation processes - and field experiences. Students spend a total of 20 hours observing in writing classrooms, the WFU Writing Center and/or community sites, and tutoring. Students reflect on these experiences to prepare a final researched writing project. Strongly recommended for those interested in working in the Writing Center as peer tutors.

**WRI 342. Writing Practicum. (1-3 h)**

Practical or professional experience in writing, rhetoric, and composition. Students must be supervised and mentored by a faculty adviser. Cannot be repeated.

**WRI 343. Independent Study. (1-3 h)**

Independent study with faculty guidance. By prearrangement.

**WRI 344. Magazine Writing. (3 h)**

Analysis of magazine writing and long form journalism with practice pitching, reporting and writing articles in a range of styles and of varied lengths with specific audiences in mind. Also listed as JOU 340. P - JOU 270 or POI.

**WRI 350. Writing Minor Capstone. (3 h)**

Seminar course focused on reading and portfolio requirements. For students wishing to graduate with the Interdisciplinary Minor in Writing.

## Faculty

**Chair** Jessica Richard

**Associate Chair** Barry Maine

**Director of Writing Program** Erin Branch

**Director of English Undergraduate Studies** Melissa Jenkins

**Director of English Core Curriculum** Rian Bowie

**Director of Creative Writing Program** Eric Wilson

**Director of Writing Center** Ryan Shirey

**Reynolds Professor of English** Herman Rapaport

**Thomas H. Pritchard Professor of English** Eric G. Wilson

**Winifred W. Palmer Professor in Literature** Dean J. Franco

**McCulloch Family Faculty Fellow** Melissa Jenkins

**Ollen R. Nally Faculty Fellow** Sarah Hogan

**Susan & Gene Goodson Faculty Fellow** Zak Lancaster

**Wright Family Faculty Fellow** Ryan Shirey

**Z. Smith Reynolds Foundation Faculty Fellow** Rain Bowie

**Z. Smith Reynolds Foundation Faculty Fellow** Erin Branch

**Professors** Anne M. Boyle, Jefferson Holdridge, Claudia Kairoff, Scott

Klein, Barry G. Maine, Gale Sigal

**Research Professor** Gillian R. Overing

**Associate Professors** Amy Catanzano, Jennifer Greiman, Susan Harlan,

Omaar Hena, Sarah Hogan, Melissa Jenkins, Zak Lancaster, Judith Irwin

Madera, Jessica Richard, Joanna Ruocco, Erica Still, Olga Valbuena-

Hanson

**Assistant Professors** Lucy Alford, Chris Brown, Derek Lee, Alisa Russell,

Lamar Wilson

**Professor of the Practice** Justin J. Catanoso

**Associate Professor of the Practice** Phoebe Zerwick

**Associate Teaching Professors** Rian Bowie, Erin Branch, Eric Ekstrand,

Laura Giovanelli, Jennifer Pyke, Randi Saloman, Ryan Shirey, Eric

Stottlemeyer, Elisabeth Whitehead

**Assistant Teaching Professors** Marianne Erhardt, Meredith Farmer, Ben

Keating, Danielle Koupf, Keri Mathis, Jonathan Smart, Carter Smith

**Visiting Assistant Professors** Jack Bell, Lisa Klarr, Matt Fiander

**Adjunct Professor** Adrian Greene, Carrie Johnston

## Creative Writing, Minor Requirements

Creative writing courses are open to minors and non-minors. Students who declare a Creative Writing Minor receive first preference in enrolling in creative writing courses in the English department during pre-registration periods.

The Creative Writing minor requires five course (15 hours), including one 300-level literature course offered by the English department. The remaining four courses will consist of Creative Writing workshops offered by the English department (poetry, fiction, literary nonfiction, and the 100-level multi-genre course) or cross-listed with the minor (playwriting and screenwriting); at least two of these must be at the 300-level. While CRW 100 counts towards the minor for students who wish to take this

course, it is not required. To enroll in a 300-level workshop, students must have taken a 200-level workshop.

English majors may earn a Creative Writing minor by taking four creative writing courses (at least two at the 300-level) exclusive of courses used to complete their major.

Code	Title	Hours
<b>Creative Writing (CRW) courses that fulfill the minor</b>		
CRW 100	Introduction to Creative Writing	3
CRW 285	Poetry Workshop	3
CRW 286	Short Story Workshop	3
CRW 287	Literary Nonfiction Workshop	3
CRW 300	Topics in Creative Writing	3
CRW 384	Playwriting	3
CRW 385	Advanced Poetry Workshop	3
CRW 386	Advanced Fiction Writing	3
CRW 387	Advanced Literary Nonfiction Workshop	3
<b>Electives that fulfill the minor</b>		
COM 316	Screenwriting	3

## English, B.A.

### Requirements

Requires a minimum of 33 hours in courses ENG 150 and above. (WRI 105 and WRI 111, basic writing requirements, do not count toward the major or minor nor do they count as a divisional requirement.) The courses for the major must include:

Code	Title	Hours
ENG 265	British Literature before 1800 (gateway course)	3
ENG 266 or ENG 275	British Literature 1800 to the Present (gateway courses) American Literature	3
ENG 290	Foundations in Literary Criticism (gateway course)	3
	Select four 300-level English courses from among of the following four groups:	12
	I: Genre and Aesthetics	
	II: History and Intellectual History	
	III: Culture	
	IV: Single Author	
	Select nine hours of electives at 300-level (may include up to two 300-level Creative Writing or Writing courses)	9
	Select three hours of any ENG course at the 100-level or above or a three-hour 200-level course in either Creative Writing or Writing	3

All students must take two 300-level ENG courses that fulfill the pre-1800 British literature requirement. Students who declared the major before Fall 2020 must take one course from each of the four major groupings: Genre, History, Culture, and Single Author. Students who declare the major in Fall 2020 or later may select four courses from among the groupings without a set distribution requirement.

Selected 300-level courses are offered in different versions that fall under different major groupings. The group designation for a particular class

may vary from one semester to the next, depending on the instructor; please consult the course descriptions posted on the English department website to confirm the group designation for a specific course. Students may take only one version of a given course for credit, with the exception of ENG 301 or ENG 302, which may be repeated when offered on different subjects.

Majors and their advisers plan individual programs to meet these requirements; majors are urged to take their gateway requirements as early as possible in their college careers. No more than two courses (six hours) taken elsewhere may be counted toward the 24 hours of 300-level English courses required for the major. This limitation applies to courses taught in approved non-Wake Forest programs, not to courses in programs offered or sponsored by Wake Forest.

### I: Genre and Aesthetics

Code	Title	Hours
ENG 302	Ideas in Literature	3
ENG 312	Medieval Poetry	3
ENG 320	British Drama to 1642	3
ENG 335	18th-Century British Fiction	3
ENG 336	Restoration and 18th-Century British Drama	3
ENG 341	Literature and the Environment	3
ENG 344	Studies in Poetry	3
ENG 345	Studies in Fiction	3
ENG 346	Studies in Theatre	3
ENG 347	Modern English and Continental Drama and the London Stage	3
ENG 353	19th-Century British Fiction	3
ENG 354	Victorian Poetry	3
ENG 358	Postcolonial Literature	3
ENG 359	Studies in Postcolonial Literature	3
ENG 360	Studies in Victorian Literature	3
ENG 363	Studies in Modernism	3
ENG 365	20th-Century British Fiction	3
ENG 368	Studies in Irish Literature	3
ENG 369	Modern Drama	3
ENG 373	Literature and Film	3
ENG 374	American Fiction before 1865	3
ENG 375	American Drama	3
ENG 376	American Poetry before 1900	3
ENG 379	Literary Forms of the American Personal Narrative	3
ENG 382	Modern American Fiction, 1915 to 1965	3
ENG 385	20th-Century American Poetry	3
ENG 387	African-American Fiction	3
ENG 389	African-American Poetry	3
ENG 391	Studies in Postmodernism	3
ENG 393	Multicultural American Drama	3
ENG 394	Contemporary Drama	3
ENG 395	Contemporary American Literature	3
ENG 396	Contemporary British Fiction	3

## II: History and Intellectual History

Code	Title	Hours
ENG 302	Ideas in Literature	3
ENG 310	The Medieval World	3
ENG 311	The Legend of Arthur	3
ENG 325	16th-Century British Literature	3
ENG 326	Studies in English Renaissance Literature	3
ENG 328	17th-Century British Literature	3
ENG 330	Restoration and 18th-Century British Literature	3
ENG 338	Studies in Gender and Literature	3
ENG 339	Studies in Sexuality and Literature	3
ENG 341	Literature and the Environment	3
ENG 350	British Romantic Poets	3
ENG 351	Studies in Romanticism	3
ENG 353	19th-Century British Fiction	3
ENG 354	Victorian Poetry	3
ENG 357	Studies in Chicano/a Literature	3
ENG 358	Postcolonial Literature	3
ENG 360	Studies in Victorian Literature	3
ENG 361	Literature and Science	3
ENG 362	Irish Literature in the Twentieth Century	3
ENG 363	Studies in Modernism	3
ENG 364	Advanced Studies in Literary Criticism	3
ENG 367	20th-Century English Poetry	3
ENG 368	Studies in Irish Literature	3
ENG 370	American Literature to 1820	3
ENG 372	American Romanticism	3
ENG 380	American Fiction 1865 to 1915	3
ENG 387	African-American Fiction	3

## III: Culture

Code	Title	Hours
ENG 302	Ideas in Literature	3
ENG 310	The Medieval World	3
ENG 311	The Legend of Arthur	3
ENG 313	Roots of Song	3
ENG 337	Studies in 18th-Century British Literature	3
ENG 338	Studies in Gender and Literature	3
ENG 339	Studies in Sexuality and Literature	3
ENG 340	Studies in Women and Literature	3
ENG 341	Literature and the Environment	3
ENG 356	Literature of the Caribbean	3
ENG 357	Studies in Chicano/a Literature	3
ENG 358	Postcolonial Literature	3
ENG 359	Studies in Postcolonial Literature	3
ENG 360	Studies in Victorian Literature	3
ENG 371	American Ethnic Literature	3
ENG 377	American Jewish Literature	3
ENG 378	Literature of the American South	3
ENG 381	Studies in African-American Literature	3
ENG 387	African-American Fiction	3

ENG 389	African-American Poetry	3
ENG 393	Multicultural American Drama	3

## IV: Single Author

Code	Title	Hours
ENG 301	Individual Authors	3
ENG 315	Chaucer	3
ENG 323	Shakespeare	3
ENG 327	Milton	3
ENG 333	Jane Austen	3
ENG 366	James Joyce	3

## Honors

Highly qualified majors recommended by the English faculty are invited to apply to the honors program in English during the second semester of their junior year. To graduate with "Honors in English," students must have a minimum GPA of 3.5 in the major and 3.2 in all course work. Students must also fulfill the 10-page writing requirement in the fall semester that allows them to enroll in ENG 388 the spring semester of their senior year. Finally, they must satisfy the requirements of the program by completing and successfully defending their honors thesis as part of ENG 388 Honors in English. Interested students may consult the director of the English honors program for further information.

## English, Minor

### Requirements

The minor in English requires 21 hours in courses ENG 150 and above, at least 15 of which must be in advanced ENG courses numbered ENG 301-ENG 398. No more than two advanced Creative Writing or Writing courses (CRW 385, CRW 386, CRW 387, WRI 344, WRI 350) may be counted toward the minor. Each minor will be assigned an adviser in the English department who will plan a program of study with the student. No more than one course (three hours) taken elsewhere may be counted toward the minor. This limitation applies to courses taught in approved non-Wake Forest programs, not to courses in programs offered or sponsored by Wake Forest.

## Writing, Minor

### Requirements

Students in the Writing minor will develop their academic, critical, and rhetorical writing skills in ways that enhance their major courses of study. By moving beyond the competencies introduced in the first-year writing seminar, the Writing minor will provide students with opportunities to practice, refine, and extend their skills as academic, professional, and creative writers. The curriculum, composed of new and existing courses in rhetoric and writing, as well as writing-enhanced courses across the disciplines, prepares students to participate in various writing situations both inside and outside the academy.

At least 18 credits of coursework, including:

Code	Title	Hours
Select one 3-credit gateway course		3
Select one 3-credit capstone course		3

Select an additional six credits from upper level writing courses	6
Select six credits from elective or upper-level writing courses	6

## Gateway Courses: Introduction to the Minor

Code	Title	Hours
WRI 210	Advanced Academic Writing *	3
or WRI 212	Literary Nonfiction: Art of the Essay	

\* The course not taken as the introduction to the minor may be taken in the second category.

## Upper Level Writing Courses

Minimum of 6 credits:

Code	Title	Hours
WRI 210	Advanced Academic Writing	3
WRI 212	Literary Nonfiction: Art of the Essay	3
WRI 306	Special Topics in Rhetoric and Writing	1.5,3
WRI 307	Contemporary Theory of Rhetoric and Writing	1.5,3
WRI 310	Interaction in Language: Introduction to Written Discourse Studies	3
WRI 320	Writing in and about Science: Scientists as Writers and Writers as Scientists	3
WRI 340	Practice in Rhetoric and Writing *	3
WRI 341	Writing Center Pedagogy	3
WRI 344	Magazine Writing	3
ENG 309	Modern English Grammar	3
ENG 390	The Structure of English	3

\* May be repeated once for credit towards the minor.

## Writing Electives

Any upper level writing course or writing-enriched courses across the disciplines that do not satisfy the gateway course or the 6 credits toward the minor may be used as electives. (A list of writing enhanced courses will be found on the Writing Program's webpage.)

## Writing Minor Capstone

Code	Title	Hours
WRI 350	Writing Minor Capstone	3

The Writing Minor is intended to complement a student's major, and "double dipping" is discouraged. No more than one course may count toward another program of study.

## Entrepreneurship (ENT)

### Overview

Interdisciplinary Minor

The Wake Forest Center for Entrepreneurship offers an interdisciplinary minor in entrepreneurship. Through a modern evidence-based entrepreneurship curriculum, emphasis on deliberate practice, and

strong teaching and mentorship, the Center seeks to ignite passion for entrepreneurial action, to develop entrepreneurial self-efficacy, and to cultivate a growth mindset for entrepreneurship. The entrepreneurship minor can be coupled with any liberal arts major and gives students valuable skills for their future careers, including risk and uncertainty management, interpersonal and networking management, innovation and product development, and opportunity recognition.

## Contact Information

Center for Entrepreneurship (<http://entrepreneurship.wfu.edu/>)  
Reynolda Hall 230  
Phone 336-758-3153

## Programs

### Minor

- Entrepreneurship, Minor

## Courses

### ENT 105. The Entrepreneurial Experience: From Mindset to Entrepreneurial Identity. (1 h)

An exploration and analysis of the entrepreneurial lifecycle from ideation, concept development, launching and building a company, and eventually exiting, with specific focus on developing an entrepreneurial mindset and forming an entrepreneurial identity. The course features guest speakers who have founded companies in various industries.

### ENT 200. Foundations of Entrepreneurship: Identifying and Cultivating Valuable Ideas. (3 h)

Examines and cultivates the notion of creativity from the perspective of value creation, inquiry, opportunity recognition, and idea generation. Topics examined through writing and design assignments, group projects, and discussions include awareness, empathy, risk, ethics, self-agency, and social engagement with the express objective of identifying and creating valuable ideas. Provides an introduction to the practice of entrepreneurship and design thinking, along with the development of an entrepreneurial mindset.

### ENT 201. Evidence-Based Entrepreneurship: Developing Validated Concepts. (3 h)

Examines how individuals use entrepreneurial skills to craft innovative responses to societal and market needs. Using customer discovery and other evidence-based entrepreneurial methods, students participate in the progression of ideas into validated concepts. P - ENT 200.

### ENT 203. Writing for a Social Purpose. (3 h)

Combines writing, service learning, and entrepreneurship approaches in communication by partnering students with a local nonprofit organization to provide a range of writing solutions in print and online. Also listed as JOU 325. P- JOU 270 or POI.

### ENT 204. Arts and Activism. (3 h)

Study of artists who bridge the world of arts and social justice activism by means of dance, music, film, visual arts, and theatre, as well as how they challenge the status quo, our perceptions, and societal values. No expertise in any of the arts is necessary. Also listed as MUS 233.

**ENT 205. Scaling the Entrepreneurial Venture: From Concept to Harvest. (3 h)**

Explores the stage in the entrepreneurial lifecycle where validated concepts transition to established ventures. The course is designed to provide exposure to topics critical to success, such as how to scale the venture past early adopters to meet the needs of more mainstream customers. It covers key functional domains including entrepreneurial marketing, finance, fundraising, leadership, and strategy. P - ENT 201.

**ENT 250. Communication in Entrepreneurial Settings. (3 h)**

Using a fictitious start-up company, students will discover and apply business communication strategies to build new businesses. Also listed as COM 250.

**ENT 301. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

**ENT 302. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

**ENT 303. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

**ENT 304. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

**ENT 305. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

**ENT 306. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

**ENT 310. Arts Entrepreneurship. (3 h)**

Introduces entrepreneurial processes and practices in the visual arts, theater, dance, music, and creative writing. Seminar format includes encounters with arts entrepreneurs, investigation of case studies, and research in new and evolving models for creative application of entrepreneurial practices in the arts.

**ENT 312. Management in the Visual Arts. (3 h)**

Provides art students with the skills, experiences, and frameworks for understanding the role that the visual arts play within the national and international economy. Also listed as ART 297. P-Junior or senior standing and POI.

**ENT 313. Whole Person Creativity. (3 h)**

Interactive studio/seminar that introduces students to the concepts and practices of creativity, innovation, design, and sustainability. Through whole-person engagement, architectural design processes, and place-making studies, students explore the impact of human behaviors on all areas of life and society along a continuum of local to global.

**ENT 315. Nonprofit Arts and Education Entrepreneurship: Promotion of Latin-American and Latino Visual Culture. (3 h)**

Explores entrepreneurship in promoting Latin-American and U.S. Latino cultures through educational and artistic events and fundraisers on campuses and in the community. Students gain hands-on experience by assisting in the production of Wake Forest exhibitions, events promoting Latin-American and U.S. Latino heritage and culture, related community fundraisers, and nonprofit organizations.

**ENT 320. Social Entrepreneurship. (3 h)**

Interdisciplinary seminar that introduces the concepts of entrepreneurship with a focus on entrepreneurial activities that further the public good through the integration of core concepts of social and cultural values and ecological sustainability.

**ENT 321. Social Entrepreneurship and the Humanities: Innovation, Public Engagement, and Social Change. (3 h)**

Introduction to the role played by humanities in social entrepreneurship, exploring the premise that norms can be developed for the application of the humanities, and that the knowledge derived in this process can empower and be a tool in community-based engagement and social change. Course includes a social entrepreneurial project in the local community. Also listed as HMN 295.

**ENT 322. Religion, Poverty, and Social Entrepreneurship. (3 h)**

Interdisciplinary study of major themes in religion, poverty reduction, and social entrepreneurship. Focus and community emphasis may vary with instructor. Also listed as REL 344.

**ENT 323. Social Entrepreneurship Summer Program. (6 h)**

This trans-disciplinary, 4-week program explores the role of social entrepreneurship in society today and challenges students, through a rigorous and integrated curriculum to master the entrepreneurial process involved in furthering the public good through community-based engagement and social change. P-POI.

**ENT 325. Free Trade, Fair Trade: Independent Entrepreneurs in the Global Market. (3 h)**

Field-based seminar compares the barriers to market participation experienced by independent entrepreneurs cross-culturally. Free trade policies will be contrasted with fair trade practices, to determine why so many independent producers have trouble succeeding in a globalizing world. Also listed as ANT 301. (CD)

**ENT 326. Telling Women's Lives: Writing about Entrepreneurs, Activists, and Community Leaders. (3 h)**

This course will use an interdisciplinary approach to address fundamental issues of female leadership by examining recent developments in long- and short-form narratives about women (biography, essays, profiles) and employing journalistic tools to interview and write profiles of women entrepreneurs, activists, and community leaders. Also listed as WGS 326.

**ENT 330. Entrepreneurship for Scientists. (3 h)**

Introduces students to the routes by which scientific discoveries and new technologies find their way to the market place. Covers ideation, determining market potential, business planning, intellectual property, entrepreneurship ethics, venture capital, and venture incubation.

**ENT 335. Renewable Energy Entrepreneurship: Science, Policy, and Economics. (4 h)**

This team-taught course provides overviews of the most important renewable energy sources. Explores the science, policy and economic issues related to renewable energy and investigates the potential for new markets, new products, and new entrepreneurial opportunities in the marketplace. P - Junior standing and Div V requirements, or POI.

**ENT 340. Communication Technology and Entrepreneurship. (3 h)**

Explores how an e-commerce business plan can be developed and the specific ways of marketing e-commerce ventures including the options provided by new tools such as social networking applications. Also listed as COM 321.

**ENT 350. Internships in Entrepreneurial Studies. (1.5, 3 h)**

Offers the opportunity to apply knowledge in an entrepreneurial for-profit or not-for-profit environment. Requirements include a course journal and a comprehensive report that showcase the student's specific achievements and analyze the quality of his or her experience. P - POI.

**ENT 351. Green Technologies: Science and Entrepreneurship. (2, 3 h)**

Introduces the science and entrepreneurship opportunities of select green technologies. Students learn in the fundamental science associated with energy use and renewable energy and selected green technologies. Students also learn the basics of starting a new business and develop a business plan to bring a "green product" to the market. P-CHM 341 or ENT 201 or POI.

**ENT 357. Bioinspiration and Biomimetics. (3 h)**

Explores the ways in which biological mechanisms can inspire new technologies, products, and businesses. The course combines basic biological and entrepreneurial principles. Also listed as BIO 357.

**ENT 371. Economics of Entrepreneurship. (3 h)**

An examination of the economic constraints and opportunities facing entrepreneurs and their impacts on the economy. The course will blend economic theories with an empirical investigation of the lives and actions of entrepreneurs in the past and the present. Also listed as ECN 266.

**ENT 380. America at Work. (3 h)**

Examines the American entrepreneurial spirit within the broader context of industrial, social, and economic change from the colonial period to the present and explores the social and cultural meanings attached to work and workers, owner and innovators, businesses and technologies, management and leadership. Also listed as HST 380. (CD)

**ENT 384. Design-Thinking and High Performance Teams. (3 h)**

In this experiential class, we study the evolution of high-performance teams in design-thinking environments. At its core, design thinking is an approach to innovative problem solving that balances art, science, and business perspectives in realistic and highly impactful ways. In this course we develop the ability to participate in and lead high-performance teams within a design-thinking environment. The course involves an action-learning project that applies the perspectives of anthropology, history, political science, communication, and psychology, among others, in solving a real-world problem. Also listed as BEM 384.

**ENT 391. Independent Study in Entrepreneurship. (1.5, 3 h)**

An independent project involving entrepreneurship or social enterprise carried out under the supervision of the faculty member. P - POI.

**ENT 392. Independent Study in Entrepreneurship. (1.5, 3 h)**

An independent project involving entrepreneurship or social enterprise carried out under the supervision of a faculty member. P - POI.

**ENT 394A. Student Entrepreneurship in Action. (1.5, 3 h)**

This course is built around the real-time challenges and learning that occur as the students in the class launch, run, build, and sell or transition their venture. Promotes intense rigorous intellectual exchange in a seminar setting in which all will not only participate in critical thinking and analysis, but also in problem solving and leadership. Course may be repeated for credit. P - POI.

**ENT 394B. Student Entrepreneurship in Action. (1.5, 3 h)**

This course is built around the real-time challenges and learning that occur as the students in the class launch, run, build, and sell or transition their venture. Promotes intense rigorous intellectual exchange in a seminar setting in which all will not only participate in critical thinking and analysis, but also in problem solving and leadership. Course may be repeated for credit. P - POI.

**ENT 399. Startup Lab. (3 h)**

Startup Lab is designed to help students take high potential ideas and, after learning best practices on evidence-based entrepreneurship, apply lean startup methodology to their own startup. Students will learn key aspects of building an early stage company such as how to make crucial early stage sales, how to build brand loyalty with early stage customers, key aspects of accounting, finance, and human resources that apply to startups, and how to lead a team. This is a practicum and much of the learning is application-oriented and focuses directly on the startup or the startup team. P-POI.

## Faculty

**John C. Whitaker Jr. Executive Director Center for Entrepreneurship, Professor of Practice, Entrepreneurship** Daniel Cohen

**Faculty Director Farr Professor of Innovation, Creativity and Entrepreneurship** Paul Pauca

**Merlo Presidential Chair in Communication and Entrepreneurship, Associate Professor** Rebecca Gill

**Visiting Assistant Professor** Gregory Pool, Rebecca Byer

**Research Professor in Entrepreneurship** Elizabeth Gatewood

**Adjunct Professor** Jennifer Bennett, Jonathan Clift, Anthony DiBianca, Drew Hancock, Roy Richards

**Core Faculty** William Conner (Professor of Biology), Michele Gillespie (Professor of History), Linda Howe (Associate Professor of Romance Languages), Ben King (Professor of Practice School of Business), Abdessadek Lachgar (Professor of Chemistry), Ananda Mitra (Professor of Communication), David Phillips (Associate Professor of Interdisciplinary Humanities), Robert Whaples (Professor of Economics), Ulrike Wiethaus (Professor of Religion and American Ethnic Studies)

## Entrepreneurship, Minor

### Requirements

The minor requires a minimum of 19 hours in core and elective courses.

Code	Title	Hours
ENT 105	The Entrepreneurial Experience: From Mindset to Entrepreneurial Identity	1
ENT 200	Foundations of Entrepreneurship: Identifying and Cultivating Valuable Ideas	3
ENT 201	Evidence-Based Entrepreneurship: Developing Validated Concepts	3
ENT 205	Scaling the Entrepreneurial Venture: From Concept to Harvest	3

Select nine hours from the following electives: \*

ENT Electives for the Minor

General Electives for the Minor

\* All students may fulfill three of their elective hours by taking the Summer Management Program (BUS 295). No more than six of the elective hours may be counted from a student's major. No more than six hours can be taken under the pass/fail option and used to meet the minor requirements. No more than six hours can be taken abroad.

Course plans will be made in consultation with the director of the minor. It is strongly suggested that interested students take ENT 105 by their sophomore year and note the prerequisites for ENT 201 and ENT 205.

## ENT Electives for the Minor

Code	Title	Hours
ENT 203	Writing for a Social Purpose	3
ENT 204	Arts and Activism	3
ENT 250	Communication in Entrepreneurial Settings	3
ENT 301	Topics in Entrepreneurship	1.5,3
ENT 302	Topics in Entrepreneurship	1.5,3
ENT 303	Topics in Entrepreneurship	1.5,3
ENT 304	Topics in Entrepreneurship	1.5,3
ENT 305	Topics in Entrepreneurship	1.5,3
ENT 306	Topics in Entrepreneurship	1.5,3
ENT 310	Arts Entrepreneurship	3
ENT 312	Management in the Visual Arts	3
ENT 313	Whole Person Creativity	3
ENT 315	Nonprofit Arts and Education Entrepreneurship: Promotion of Latin- American and Latino Visual Culture	3
ENT 320	Social Entrepreneurship	3
ENT 321	Social Entrepreneurship and the Humanities: Innovation, Public Engagement, and Social Change	3
ENT 322	Religion, Poverty, and Social Entrepreneurship	3
ENT 323	Social Entrepreneurship Summer Program	6
ENT 325	Free Trade, Fair Trade: Independent Entrepreneurs in the Global Market	3
ENT 326	Telling Women's Lives: Writing about Entrepreneurs, Activists, and Community Leaders	3
ENT 330	Entrepreneurship for Scientists	3
ENT 335	Renewable Energy Entrepreneurship: Science, Policy, and Economics	4
ENT 340	Communication Technology and Entrepreneurship	3
ENT 350	Internships in Entrepreneurial Studies	1.5,3
ENT 351	Green Technologies: Science and Entrepreneurship	2,3
ENT 357	Bioinspiration and Biomimetics	3
ENT 371	Economics of Entrepreneurship	3
ENT 380	America at Work	3
ENT 384	Design-Thinking and High Performance Teams	3
ENT 391	Independent Study in Entrepreneurship	1.5,3
ENT 392	Independent Study in Entrepreneurship	1.5,3
ENT 394A	Student Entrepreneurship in Action	1.5,3
ENT 394B	Student Entrepreneurship in Action	1.5,3
ENT 399	Startup Lab	3

## General Electives for the Minor

Code	Title	Hours
ACC 111	Introductory Financial Accounting	3
ANT 305	Museum Anthropology	3
ANT 342	Applied Anthropology	3

ART 121	Design Studio: Ethics and Aesthetics	3
ART 122	Design Studio: Visualization of Ideas	3
ART 215	Public Art	4
ART 297	Management in the Visual Arts	3
BEM 211	Organizational Behavior	3
BEM 221	Principles of Marketing	3
BEM 261	Legal Environment of Business	3
BEM 316	Leading in Nonprofit Sector	3
BEM 371	Strategic Management	3
BEM 372	Strategic Management in Entrepreneurial Firms	3
BEM 377	Entrepreneurship	3
BEM 382	Management in the Visual Arts	3
BEM 383	Seminar in Negotiations	3
BEM 384	Design-Thinking and High-Performance Teams	3
BIO 357	Bioinspiration and Biomimetics	3
BUS 295	Summer Management Program	8
COM 250	Communication in Entrepreneurial Settings	3
COM 262	Writing for Public Relations and Advertising	3
COM 315	Communication and Technology	3
COM 353	Persuasion	3
COM 370	Special Topics (when topic is Storytelling and the Entrepreneur )	1-3
CSC 111	Introduction to Computer Science	4
CSC 331	Software Engineering	3
CSC 332	Mobile and Pervasive Computing	3
CSC 361	Digital Media	3
CSC 385	Bioinformatics	3
ECN 205	Intermediate Microeconomics I	3
ENV 201	Environmental Issues	3
FRH 329	French for Business Communication	3
GER 330	Business German II	3
HMN 295	Social Entrepreneurship and the Humanities: Innovation, Public Engagement, and Social Change	3
HST 350	World Economic History: Globalization, Wealth and Poverty, 1500-Present	3
HST 380	America at Work	3
INS 154	Community Based Global Learning	3
INS 260	Seminar in Global Trade and Commerce Studies	3
JOU 325	Writing for a Social Purpose	3
JOU 350	Writing for Public Relations and Advertising	1.5,3
LIB 235	Research Methods for Entrepreneurs	1.5
PHI 161	Introduction to Bioethics	3
PHI 163	Environmental Ethics	3
PHI 367	Philosophical Theories in Bioethics	3
PHI 368	Concepts of Health & Disease	3
PHY 385	Bioinformatics	3
POL 238	Comparative Economic Development and Political Change	3
POL 239	State, Economy, and International Competitiveness	3



PSY 260	Social Psychology	3
PSY 268	Industrial/Organization Psychology	3
PSY 357	Cross-Cultural Psychology	3
PSY 374	Research in Judgment and Decision Making	3
REL 332	Religion and Public Engagement	3
REL 344	Religion, Poverty, and Social Entrepreneurship	3
SOC 362	Work, Conflict, and Change	3
SOC 363	Global Capitalism	3
SOC 365	Technology, Culture, and Change	3
SPA 387	Cultural Industries and Institutions in Spain and Spanish America	3
THE 259	Theater Management: Principles and Practices	3
WGS 326	Telling Women's Lives: Writing about Entrepreneurs, Activists, and Thought Leaders	3

## Environmental Program (ENV)

### Interdisciplinary Program

The Wake Forest Environmental Program offers Bachelor of Arts Degrees in Environmental Science and Environment and Sustainability Studies, and minors in Environmental Science and Environmental Studies.

The Environmental Program provides an interdisciplinary approach to the study of human-environment interaction. The program seeks to identify and apply perspectives from biology, chemistry, physics, geography, government, economics, history, humanities, law, ethics, and anthropology to the human impact on the natural environment.

The majors and minors are designed to prepare students for careers in the environmental sciences, law, public health, public policy, and public administration, and to develop attitudes and values consistent with a sustainable environmental future.

## Policies for the Majors and Minors and other Programs of Study

1. The Bachelor of Arts in Environment and Sustainability, regardless of track, cannot be used as a double major with Biology, Biochemistry and Molecular Biology, or Chemistry with a concentration in Biochemistry.
2. A Biology major can elect the minor in Environmental Studies. A Biology major can also elect the minor in Environmental Science, however ENV 220/BIO 220 cannot be counted toward both the Biology major requirements and the Environmental Studies Minor.
3. Because of the number of shared courses, an Environment and Sustainability Studies major cannot declare the Biology minor.
4. Students can minor in both Biology and Environmental Science or Environmental Studies.

## Contact Information

Environmental Program (<http://college.wfu.edu/environment/>)

## Programs Majors

- Major in Environmental Science
- Major in Environmental and Sustainability Studies

## Minors

- Minor in Environmental Science
- Minor in Environmental Studies

## Courses

### Environmental Program (ENV)

#### ENV 201. Environmental Issues. (3 h)

Topics include environmental literature, environmental history, human populations, resource management, pollution, global change, environmental activism and environmental ethics.

#### ENV 202. Environmental Solutions. (3 h)

Learn how to improve our environment by identifying and exploring innovative environmental solutions. Counts towards Environmental Minor requirements.

#### ENV 203. Leadership for Sustainability. (3 h)

Sustainability Ambassadors are student peer educators for sustainability. The mission of the Sustainability Ambassadors program is to support the development of sustainable behaviors among the student population at Wake Forest University. Through outreach activities, campaign development, event planning, sustainability assessments, and presentations, Sustainability Ambassadors are able to reach Wake students in a variety of settings. They help fulfill the Office's mission of empowering others to assume leadership roles in sustainability.

#### ENV 220. Introduction to Earth Science. (3 h)

Oceans, weather, climate, earthquakes, volcanoes, soil, and space all play important roles in our dynamic planet. Students will explore the lithosphere, hydrosphere, atmosphere, and biosphere, and gain a deeper understanding of how the Earth operates as a whole. Also listed as BIO 220. P-requires BIO 150, 150L, 160, and 160L if taken as BIO 220.

#### ENV 301. Topics in Environmental Studies. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

#### ENV 302. Topics in Environmental Studies. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

#### ENV 303. Topics in Environmental Studies. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

#### ENV 304. Topics in Environmental Studies. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

#### ENV 305. Topics in Environmental Studies. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

#### ENV 306. Topics in Environmental Studies. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**ENV 391. Individual Study. (1.5 h)**

A field study, internship, project or research investigation carried out under the supervision of a member of the environmental program faculty. Pass/fail or for a grade at the discretion of the instructor. Pass/fail is not an option if used as an elective for the environmental science or environmental studies minor.

**ENV 392. Individual Study. (1.5 h)****ENV 394. Environmental Internship. (1-4 h)**

Supervised internships with governmental agencies, nonprofit organizations and businesses.

**ENV 395. Sustainability Lab/Clinic. (4 h)**

Focuses on practical solutions to sustainability problems, and includes the use of makerspace, the fabrication lab, and the visualization lab.

## Faculty

**Co-Directors**

Lucas Johnston (Associate Professor of Religion and Environment)

Jim Curran (Professor of Biology)

**Core Faculty:**

Robert Browne (Biology Department)

David Phillips (Interdisciplinary Humanities)

Miles Silman (Biology)

Eric Stottlemeyer (Dean's Office/English Department)

## Environmental Science, BA

### Requirements

Requires 38 hours. These must include:

Code	Title	Hours
<b>Environment and Sustainability Core</b>		
ENV 201	Environmental Issues	3
ENV 203	Leadership for Sustainability	3
ENV 220	Introduction to Earth Science	3
BIO 150 & 150L	Biology I and Biology I Lab	4
BIO 160 & 160L	Biology II and Biology II Lab	4
<b>Co-Required Courses</b>		
CHM 111 & 111L	College Chemistry I and College Chemistry I Lab	4
One additional quantitative methods course *		
<b>Interdisciplinary Area Requirements</b>		
Natural Science		9
Social Science, Humanities, Policy, and Sustainable Design		9
Applied Sustainability		3-6

\* Course(s) of the student's choosing must be approved by the program co-directors.

### Natural Science

Code	Title	Hours
BIO 225	Field Biology and Natural History	3
BIO 235	Genetics and Evolution	3
BIO 245	Comparative Animal Physiology	3

BIO 310	Community Ecology and Global Change	4
BIO 311	Ecology and Conservation Biology of Coral Reefs	4
BIO 313	Herpetology	4
BIO 315 & 315L	Population Genetics and Population Genetics Lab	3-4
BIO 316	Biology of Birds	4
BIO 317 & 317L	Plant Physiology and Development and Plant Physiology and Development Lab	3-4
BIO 323 & 323L	Animal Behavior and Animal Behavior Lab	3-4
BIO 330	Land and Natural Resource Management	3
BIO 335	Insect Biology	4
BIO 338 & 338L	Plant Diversity and Plant Diversity	3-4
BIO 340	Ecology	4
BIO 342	Oceanography	4
BIO 348 & 348L	Physiological Plant Ecology and Physiological Plant Ecology	3-4
BIO 349	Tropical Biodiversity of the Amazon and Andes	4
BIO 356	Ecology and Resource Management of Southeast Australia	4
BIO 357	Bioinspiration and Biomimetics	3
BIO 358 & 358L	Biogeography and Biogeography Lab	3-4
BIO 379	Introduction to Geographic Information Systems (GIS)	4
BIO 380	Biostatistics	3

## Social Science, Humanities, Policy, and Sustainable Design

Code	Title	Hours
<b>Social Science Electives</b>		
ANT 339	Culture and Nature: Introduction to Environmental Anthropology	3
ECN 241	Environmental and Natural Resource Economics	3
POL 210	Topics In United States Politics and Policy (when topic is Environmental Policy)	3
POL 281	Environmental Political Thought	3
<b>Humanities Electives</b>		
ART 121	Design Studio: Ethics and Aesthetics	3
ENG 341	Literature and the Environment	3
ENG 356	Literature of the Caribbean	3
HMN 292	Environmentalism, the Humanities, and Gender	3
HMN 365	Humanity and Nature	1.5,3
HST 112	Big History: A History of the Cosmos and Humanity's Place In It	3
HST 350	World Economic History: Globalization, Wealth and Poverty, 1500-Present	3
HST 368	U.S. Environmental History	3

JOU 375	Special Topics in Journalism (when topic is Science Writing for the Public or Environmental Journalism)	1-3
REL 341	Religion and Ecology	3

## Applied Sustainability

Code	Title	Hours
ENT 335	Renewable Energy Entrepreneurship: Science, Policy, and Economics	4
ENT 351	Green Technologies: Science and Entrepreneurship	2,3
ENV 394	Environmental Internship	1-4
ENV 395	Sustainability Lab/Clinic	4

## Environment and Sustainability Studies, BA

### Requirements

Requires 35 hours. These must include:

Code	Title	Hours
<b>Environment and Sustainability Core</b>		
ENV 201	Environmental Issues	3
ENV 203	Leadership for Sustainability	3
ENV 220	Introduction to Earth Science	3
BIO 150 & 150L	Biology I and Biology I Lab	4
BIO 160 & 160L	Biology II and Biology II Lab	4
<b>Co-Required Courses</b>		
CHM/PHY 120	Physics and Chemistry of the Environment	4
<b>Interdisciplinary Area Requirements</b>		
Natural Science Requirement		3-6
Social Science, Humanities, Policy, and Sustainable Design		12
Applied Sustainability		3-6

## Natural Science

Code	Title	Hours
BIO 225	Field Biology and Natural History	3
BIO 235	Genetics and Evolution	3
BIO 245	Comparative Animal Physiology	3
BIO 310	Community Ecology and Global Change	4
BIO 311	Ecology and Conservation Biology of Coral Reefs	4
BIO 313	Herpetology	4
BIO 315 & 315L	Population Genetics and Population Genetics Lab	3-4
BIO 316	Biology of Birds	4
BIO 317 & 317L	Plant Physiology and Development and Plant Physiology and Development Lab	3-4
BIO 323 & 323L	Animal Behavior and Animal Behavior Lab	3-4
BIO 330	Land and Natural Resource Management	3
BIO 335	Insect Biology	4

BIO 338 & 338L	Plant Diversity and Plant Diversity	3-4
BIO 340	Ecology	4
BIO 342	Oceanography	4
BIO 348 & 348L	Physiological Plant Ecology and Physiological Plant Ecology	3-4
BIO 349	Tropical Biodiversity of the Amazon and Andes	4
BIO 356	Ecology and Resource Management of Southeast Australia	4
BIO 357	Bioinspiration and Biomimetics	3
BIO 358 & 358L	Biogeography and Biogeography Lab	3-4
BIO 379	Introduction to Geographic Information Systems (GIS)	4
BIO 380	Biostatistics	3

## Social Science, Humanities, Policy, and Sustainable Design

Code	Title	Hours
<b>Social Science Electives</b>		
ANT 339	Culture and Nature: Introduction to Environmental Anthropology	3
ECN 241	Environmental and Natural Resource Economics	3
POL 210	Topics In United States Politics and Policy (when topic is Environmental Policy)	3
POL 281	Environmental Political Thought	3
<b>Humanities Electives</b>		
ART 121	Design Studio: Ethics and Aesthetics	3
ENG 341	Literature and the Environment	3
ENG 356	Literature of the Caribbean	3
HMN 292	Environmentalism, the Humanities, and Gender	3
HMN 365	Humanity and Nature	1.5,3
HST 112	Big History: A History of the Cosmos and Humanity's Place In It	3
HST 350	World Economic History: Globalization, Wealth and Poverty, 1500-Present	3
HST 368	U.S. Environmental History	3
JOU 375	Special Topics in Journalism (when topic is Science Writing for the Public or Environmental Journalism )	1-3
REL 341	Religion and Ecology	3

## Applied Sustainability

Code	Title	Hours
ENT 335	Renewable Energy Entrepreneurship: Science, Policy, and Economics	4
ENT 351	Green Technologies: Science and Entrepreneurship	2,3
ENV 394	Environmental Internship	1-4
ENV 395	Sustainability Lab/Clinic	4

## Environmental Science, Minor Requirements

A total of 18 hours, including 11 hours of elective courses, is required for the minor.

Code	Title	Hours
<b>Required Minor Courses</b>		
ENV 201	Environmental Issues	3
ENV 220	Introduction to Earth Science	3
CHM/PHY 120	Physics and Chemistry of the Environment	4
	Select 8 hours of electives	8

Additional elective courses may have been approved since publication of this bulletin. The program director maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this bulletin.

## Electives for Environmental Science Minor

Code	Title	Hours
BIO 306	Topics in Biology	1-4
BIO 310	Community Ecology and Global Change	4
BIO 311	Ecology and Conservation Biology of Coral Reefs	4
BIO 330	Land and Natural Resource Management	3
BIO 340	Ecology	4
BIO 341 & 341L	Marine Biology and Marine Biology	3-4
BIO 348 & 348L	Physiological Plant Ecology and Physiological Plant Ecology	3-4
BIO 349	Tropical Biodiversity of the Amazon and Andes	4
BIO 356	Ecology and Resource Management of Southeast Australia	4
BIO 379	Introduction to Geographic Information Systems (GIS)	4
BIO 380	Biostatistics	3
CHM 334	Chemical Analysis	4
CHM 351	Special Topics in Chemistry (Green Technologies: Science and Entrepreneurship)	3
CHM 351	Special Topics in Chemistry (Chemistry of Food)	3
CHM 391	Undergraduate Research	1-3
CHM 392	Undergraduate Research	1-3
ECN 241	Environmental and Natural Resource Economics	3
ENT 335	Renewable Energy Entrepreneurship: Science, Policy, and Economics	4
ENT 351	Green Technologies: Science and Entrepreneurship	2,3
ENV 202	Environmental Solutions	3
ENV 203	Leadership for Sustainability	3
HMN 365	Humanity and Nature	3
STA 212	Statistical Models	3

## Environmental Studies, Minor Requirements

A total of 18 hours is required for the minor.

Code	Title	Hours
ENV 201	Environmental Issues	3
Select one course from each of the following:		15
I. Social Sciences		
II. Natural and Physical Sciences		
III. Humanities		

### I. Social Sciences

Code	Title	Hours
ANT 339	Culture and Nature: Introduction to Environmental Anthropology	3
ECN 241	Environmental and Natural Resource Economics	3
ENV 202	Environmental Solutions	3
ENV 301	Topics in Environmental Studies (Environmental Policy and Law)	1-4
POL 281	Environmental Political Thought	3

### II. Natural and Physical Sciences

Code	Title	Hours
BIO 306	Topics in Biology	3
BIO 310	Community Ecology and Global Change	4
BIO 311	Ecology and Conservation Biology of Coral Reefs	4
BIO 340	Ecology	4
BIO 341 & 341L	Marine Biology and Marine Biology	3-4
BIO 348 & 348L	Physiological Plant Ecology and Physiological Plant Ecology	3-4
BIO 349	Tropical Biodiversity of the Amazon and Andes	4
BIO 356	Ecology and Resource Management of Southeast Australia	4
BIO 379	Introduction to Geographic Information Systems (GIS)	4
BIO 380	Biostatistics	3
CHM/PHY 120	Physics and Chemistry of the Environment	4
ENV 220	Introduction to Earth Science	3
STA 212	Statistical Models	3

### III. Humanities

Code	Title	Hours
CRW 387	Advanced Literary Nonfiction Workshop (Environmental Essay)	3
ENG 341	Literature and the Environment	3
ENG 356	Literature of the Caribbean	3
HMN 292	Environmentalism, the Humanities, and Gender	3
HMN 365	Humanity and Nature	3

HST 112	Big History: A History of the Cosmos and Humanity's Place In It	3
REL 341	Religion and Ecology	3

HST 112	Big History: A History of the Cosmos and Humanity's Place In It	3
POL 281	Environmental Political Thought	3
REL 341	Religion and Ecology	3

**The following courses can serve as electives for the environmental studies minor.** Additional courses may have been approved since the publication of this bulletin. The program director maintains a complete list of all approved courses. For course descriptions, see the relevant department's listings in this bulletin.

Code	Title	Hours
ANT 339	Culture and Nature: Introduction to Environmental Anthropology	3
BIO 304	Topics in Biology (Land Use and Policy)	1-4
BIO 306	Topics in Biology (Geographical Information Systems)	3
BIO 310	Community Ecology and Global Change	4
BIO 330	Land and Natural Resource Management	3
BIO 340	Ecology	4
BIO 341 & 341L	Marine Biology and Marine Biology	3-4
BIO 348 & 348L	Physiological Plant Ecology and Physiological Plant Ecology	3-4
BIO 349	Tropical Biodiversity of the Amazon and Andes	4
BIO 356	Ecology and Resource Management of Southeast Australia	4
BIO 380	Biostatistics	3
CHM 334	Chemical Analysis	4
CHM 351	Special Topics in Chemistry (Green Technologies: Science and Entrepreneurship)	3
CHM 351	Special Topics in Chemistry (Chemistry of Food)	3
PHY/CHM 120	Physics and Chemistry of Environment	4
COM 345	Rhetoric of Science and Technology	3
CRW 387	Advanced Literary Nonfiction Workshop	3
ECN 241	Environmental and Natural Resource Economics	3
ENG 341	Literature and the Environment	3
ENG 356	Literature of the Caribbean	3
ENT 335	Renewable Energy Entrepreneurship: Science, Policy, and Economics	4
ENT 351	Green Technologies: Science and Entrepreneurship	2,3
ENV 203	Leadership for Sustainability	3
ENV 301	Topics in Environmental Studies	1-4
ENV 302	Topics in Environmental Studies	1-4
ENV 303	Topics in Environmental Studies	1-4
ENV 304	Topics in Environmental Studies	1-4
ENV 305	Topics in Environmental Studies	1-4
ENV 306	Topics in Environmental Studies	1-4
ENV 391	Individual Study	1.5
ENV 392	Individual Study	1.5
ENV 394	Environmental Internship	1-4
HMN 365	Humanity and Nature	3

## Film and Media Studies (FLM)

### Interdisciplinary Minor

Film and media studies offers an interdisciplinary approach to the study of film through a body of courses that exposes students to the cultural, political, and social implications of this art form. Courses in the minor provide students with the critical tools necessary for both evaluating and producing film texts, and they prepare qualified students to choose critical and/or creative paths for further study or toward a profession. More information on the program is available at [www.wfu.edu/film](http://www.wfu.edu/film) (<http://www.wfu.edu/film/>).

## Contact Information

Film and Media Studies (<http://college.wfu.edu/filmstudies/>)

## Programs Minor

- Minor in Film and Media Studies

## Courses

### Film Studies (FLM)

#### FLM 101. Internship in Film and Media Studies I. (1.5-3 h)

Individual internships in film studies, to be approved, supervised, and evaluated by an appropriate member of the film studies faculty. The nature and extent of the internship will determine whether both sections can be taken simultaneously. Pass/fail only. P-POI.

#### FLM 102. Internship in Film and Media Studies II. (1.5-3 h)

Individual internships in film studies, to be approved, supervised, and evaluated by an appropriate member of the film studies faculty. The nature and extent of the internship will determine whether both sections can be taken simultaneously. Pass/fail only. P-POI.

#### FLM 201. Film & Media Studies Practicum. (1.5-3 h)

Practicum in film and media studies, to be approved, supervised, and evaluated by an appropriate member of the film studies faculty. May be repeated for up to six hours. Pass/fail only.

#### FLM 286. Individual Study in Film and Media Studies. (1.5-3 h)

Directed study in an area of interest to be approved and supervised by a faculty adviser. P-POI.

#### FLM 390. Special Topics in Film and Media Studies. (1.5-3 h)

Selected topics in film studies. May be repeated for credit if topic varies.

## Faculty

Director, Professor of Communication Woodrow Hood

### Core Faculty

Mary M. Dalton  
Anne E. Hardcastle  
Raisur Rahman  
Andy Rodekohr

### Affiliated Faculty

Saylor Breckenridge  
Cagney Gentry  
Molly Knight  
Anadra Mitra  
Thomas Southerland  
Joel Tauber

**Teaching Staff**  
Steve Jarrett

## Film and Media Studies, Minor

### Requirements

A minor in film and media studies requires a minimum of 18 hours of approved courses. Candidates for the minor must complete:

Code	Title	Hours
<b>Film &amp; Media Studies Required Courses</b>		
COM 120	Introduction to Film and Media Aesthetics	3
COM 320	Media Theory and Criticism	3
<b>Film &amp; Media Studies Electives</b>		
	Select one Film & Media Studies Electives in International Cinema	3
	Select one Film & Media Studies Electives in Production	3
	Select two General Film & Media Studies Electives	6

A maximum of three hours of internship credit may be counted towards the minor.

Additional elective courses may have been approved since publication of this bulletin. The program director maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this publication.

### Film & Media Studies Electives in International Cinema

Code	Title	Hours
ART 261	Topics in Film History (when topic relates to international cinema)	3
ART 396	Art History Seminar (when topic relates to international cinema)	4
COM 312	Film History to 1945	3
COM 313	Film History Since 1945	3
COM 370	Special Topics (when topic relates to international cinema)	3
EAL 252	Chinese Cinemas	3
EAL 253	Japanese Film: Themes and Methods	3
EAL 285	Contemporary East Asian Cinema	3
FRH 360	Cinema and Society	3
FRH 361	Special Topics in French and Francophone Film Studies	3
GES 335	German Film	3
GES 336	Special Topics in German Film	3
HST 385	History through Film: Bollywood and the Making of Modern India	3
IAS 325	Italian Neorealism in Films and Novels	3
ITA 326	Comedy in Italian Cinema	3

ITA 327	Modern Italian Cinema	3
SPA 313	Lights, Camera, ¡Acción!. Cinema and Culture in the Spanish-Speaking World	3
SPA 349	Great Authors and Directors (when topic relates to film studies)	1.5-3
SPA 351	Cinema and Society (May be repeated for credit when focus changes)	3

### Film & Media Studies Electives in Production

Code	Title	Hours
ART 114	Introduction to Film and Video Art	3
ART 214	Film and Video Art: Site Specific	4
ART 224	Film and Video Art: Cyberspace	4
ART 228	Film and Video Art: Theatre Works	4
COM 247	Media Production I	3
COM 309	Visual Storytelling	3
COM 310	Media Production II	3
COM 316	Screenwriting	3
COM 325	On Camera Performance	3
COM 326	Advanced Screenwriting	3

### General Film & Media Studies Electives

Code	Title	Hours
ART 260	Classics of World Cinema	3
ART 261	Topics in Film History	3
ART 396	Art History Seminar (when topic is film related)	4
COM 312	Film History to 1945	3
COM 313	Film History Since 1945	3
COM 318	Culture and Sitcom	3
COM 370	Special Topics (when topic relates to film studies)	1-3
ENG 373	Literature and Film	3
FLM 101 & FLM 102	Internship in Film and Media Studies I and Internship in Film and Media Studies II	3
FLM 286	Individual Study in Film and Media Studies	1.5-3
FLM 390	Special Topics in Film and Media Studies	1.5-3
HMN 290	The Humanities through Film, Literature and Media	3
SOC 366	Sociological Analysis of Film	3

### French Studies (FRH)

The department offers programs leading to a major and a minor in French Studies and a concentration in French for Business. The requirements for completion of each degree program are those in effect in the bulletin year when the declaration of the major, minor, and concentration occurs.

**All majors, minors, and concentration students** are strongly urged to take advantage of the department's study abroad programs.

### Semester in France

The department sponsors a semester in Dijon, France, the site of a well-established French university. Students go as a group in the fall semester,

accompanied by a departmental faculty member. Majors in all disciplines are eligible. Juniors are given preference, but well-qualified sophomores are also considered. Applicants should have completed the basic foreign language requirement (FRH 212, FRH 213, FRH 214, or equivalent), or should do so before going to Dijon. They are encouraged—but not required—to take one course or more above the level, preferably FRH 319.

Students are placed in language courses according to their level of ability in French, as ascertained by a test given at the Centre International d'Études Françaises at the Université de Bourgogne in Dijon. Courses are taught by local French professors and by the resident director, who also supervises academic, residential, and extracurricular affairs.

Code	Title	Hours
FRH 350	Studies in French Language and Culture	6
FRH 351	Advanced Oral and Written French	4
FRH 352	Contemporary France	3
FRH 353	Studies in French Art	2
FRH 354	Independent Study	1.5-3

## Summer in France

The department offers a nine-credit, six-week immersion program in Tours, France. Students at the intermediate level can complete Wake Forest's basic language requirement by taking intensive intermediate French (6 credit hours) concurrently with FRH 212 (3 hours). More advanced students can earn credit toward the major or minor in French by completing intensive advanced intermediate conversation and grammar (6 hours) and FRH 216 (3 hours); this program includes weekly lectures by faculty specializing in history, gastronomy, business, political science, or literature. The intensive language courses are taught by professors at the Institut de Touraine; FRH 212 and FRH 216 are taught by the Wake Forest professor, who also serves as the faculty director for the group. The program includes excursions to sites of historical and cultural interest and the opportunity to participate in sports and cultural activities organized by the Institut de Touraine .

## Contact Information

Department of French Studies (<http://college.wfu.edu/french/>)  
Greene Hall 323, Box 7566  
Phone 336-758-5487

## Programs

### Major

- B.A. in French Studies

### Minor

- Minor in French Studies

## Concentration

- Concentration in French for Business

## Courses

### French Studies (FRH)

#### FRH 111. Elementary French. (3 h)

The first course in a two-semester sequence designed to help students to understand and speak French and also learn to read and write French at the elementary level.

#### FRH 112. Elementary French. (3 h)

The second course in a two-semester sequence designed to help students to understand and speak French and also learn to read and write French at the elementary level. P-FRH 111.

#### FRH 113. Intensive Elementary French. (4 h)

Review of the material from 111-112 in one semester, intended for students whose preparation for 153 is inadequate. Credit not given for both 113 and 111 or 112. Offered in the fall semester only. By placement or faculty recommendation.

#### FRH 153. Intermediate French. (4 h)

Intermediate-level course covering the structure of the language, developing students' reading, writing, and conversation skills and preparing them for oral and written discussion of readings in French 212 and 213. Note that 153 and other 153 marked courses (153F, 154) are mutually exclusive. P-FRH 111 and FRH 112, or 113, or placement.

#### FRH 154. Accelerated Intermediate French. (3 h)

Intensive, intermediate-level course intended for students with a stronger background than required of 153 students. It offers the opportunity to develop further their reading, writing, and conversation skills and prepare them for oral and written discussion of readings in French 212 and 213. Offered in the fall semester. P-POI or placement.

#### FRH 196. French Across the Curriculum. (1.5 h)

Coursework in French done as an adjunct to specially designated courses throughout the college curriculum. May be taken for grade or Pass/Fail. P-POI.

#### FRH 198. Internship in French Language. (1.5, 3 h)

Under faculty direction, a student undertakes a language project in conjunction with an off-campus service commitment or internship. Includes, but is not limited to, vocabulary building, keeping a journal, and reading professional material. P-FRH 319 or POI. Pass/Fail only.

#### FRH 199. Service Learning in French Language. (1.5 h)

Experiential learning that links classroom instruction and community service done as an adjunct to specially-designated courses throughout the French curriculum. Pass/Fail only. May be repeated for credit. P-POI.

#### FRH 212. Exploring the French and Francophone World. (3 h)

Explores significant cultural expressions from the French and Francophone world. Emphasizes both the development of competence in speaking, reading and writing French, and understanding how particular French-speaking societies have defined themselves. Credit allowed for only one: FRH 212, FRH 213, or FRH 214. P-FRH 153 or equivalent.

#### FRH 213. Encounters: French and Francophone Literature and Culture. (3 h)

Encounters with significant literary expressions from the French-speaking world. Emphasizes the advancement of competence in speaking, reading and writing, and the analysis of literature in its cultural contexts. Credit allowed for only one: FRH 212, FRH 213, or FRH 214. P-FRH 153 or equivalent.

**FRH 214. Encounters: French and Francophone Literature and Culture (Honors). (3 h)**

Encounters with significant literary expressions from the French-speaking world. Emphasizes the advancement of competence in speaking, reading and writing, and the analysis of literature in its cultural contexts. Coursework in the honors sections focuses more intently on written and oral expression and on reading strategies. Intended for students with a strong background in French. Credit allowed for only one: FRH 212, FRH 213, or FRH 214. P-Placement or POI.

**FRH 216. Studies in French and Francophone Literature and Culture. (3 h)**

Study of the ways in which various aspects of French and Francophone cultures appear in different literary genres over certain periods of time. Emphasis is placed on reading and discussion of selected representative texts. May be repeated once for credit when topics vary. Required for the major and minor. P-FRH 212 or 213 or 214; or POI. (CD)

**FRH 315. Introduction to French and Francophone Studies. (3 h)**

Orientation in French and francophone cultures through their historical development and their various forms. Includes the study of literary, historical, and social texts, and possibly films, art, and music. Required for the major and minor. Offered only once each academic year. (A student taking 350 as part of the Dijon program would receive credit for this course. Please see the description of the Dijon program for details.) P-FRH 200-level course or equivalent. (CD)

**FRH 319. Composition and Review of Grammar. (4 h)**

Systematic review of the fundamental principles of comparative grammar, with practical training in writing idiomatic French. Required for the major and minor. P-FRH 200-level course or equivalent.

**FRH 320. French Conversation. (3 h)**

A language course based on cultural materials. Designed to perfect aural skills and oral proficiency by systematically increasing vocabulary and reinforcing command of specific grammatical points. Short written works are assigned. Exclusively for second-language learners. P-FRH 200-level course or equivalent.

**FRH 321. Introduction to Translation. (3 h)**

Introduction to translation strategies through theory and practice. Emphasis is placed on translation of a broad variety of texts, including different literary and journalistic modes. Attention is given to accuracy in vocabulary, structures, forms, and to cultural concerns. P-FRH 319 or POI.

**FRH 322. French Phonetics. (3 h)**

Study of the principles of standard French pronunciation, with emphasis on their practical application as well as on their theoretical basis. P-POI.

**FRH 323. Advanced Grammar and Stylistics. (3 h)**

Review and application of grammatical structures for the refinement of writing techniques. Emphasis is on the use of French in a variety of discourse types. Attention is given to accuracy and fluency of usage in the written language. P-FRH 319 or POI.

**FRH 329. French for Business Communication. (3 h)**

Introduces the use of French in everyday professional interactions. Emphasizes oral and written practices, reading, and French business culture, as well as the job search and cross-cultural awareness. Exclusively for second-language learners. P - FRH 200 level course or equivalent.

**FRH 330. French for Management. (3 h)**

Explores oral and written French communication and develops intercultural skills in areas such as human resources, entrepreneurship, and marketing through case studies and current events. P-FRH 319, 329, or POI.

**FRH 341. Rise of French. (3 h)**

The development of French from an early Romance dialect to a world language. Study of ongoing changes in the language's sounds, grammar, and vocabulary system within its historical and cultural context. P-FRH 319 or POI.

**FRH 342. Structure of French. (3 h)**

Analysis of linguistic features of French including syntax, phonology, and morphology. P-FRH 319 or POI.

**FRH 343. Modern French. (3 h)**

Study of the features of contemporary French including colloquial French contrasting grammar, vocabulary, and pronunciation with standard forms. P-FRH 319 or POI.

**FRH 345. Language and Society. (3 h)**

Introduction to sociolinguistic issues relating to the French language and its role in societies around the world. P-FRH 319 or POI.

**FRH 350. Studies in French Language and Culture. (6 h)**

Familiarization with the language and culture of France and its people. Study of French civilization, practice in writing, participation in French family life, lectures on selected topics, and excursions to points of historical and cultural significance. Satisfies FRH 315 requirement for major or minor. Offered in Dijon. Grade mode only.

**FRH 351. Advanced Oral and Written French. (4 h)**

Study of grammar, composition, pronunciation, and phonetics, with extensive practice in oral and written French. Offered in Dijon. Grade mode only.

**FRH 352. Contemporary France. (3 h)**

Study of present-day France, including aspects of geography and consideration of social, political, and educational factors in French life today. Offered in Dijon.

**FRH 353. Studies in French Art. (2 h)**

Lectures and field trips in French painting, sculpture, and architecture, concentrating on the 19th and 20th centuries. Offered in Dijon.

**FRH 354. Independent Study. (1.5-3 h)**

One of several fields; scholar's journal and research paper. Offered in Dijon. Supervision by the resident director of the semester in France. Work may be supplemented by lectures on the subject given at the Université de Bourgogne Faculté des Lettres et Sciences Humaines.

**FRH 360. Cinema and Society. (3 h)**

Study of French and Francophone cultures through cinema. Readings and films may include film as artifact, film theory, and film history. P-FRH 216, 315 or POI. (CD)

**FRH 361. Special Topics in French and Francophone Film Studies. (3 h)**

In-depth study of particular aspects of French and/or francophone cinema. Topics may include film adaptations of literary works, cinematographic expressions of social or political issues, selected filmmakers, theories, genres, historical periods, or cinematographic trends. May be repeated for credit when topics vary. P-FRH 360 or POI.

**FRH 363. Trends in French and Francophone Poetry. (3 h)**

Study of the development of the poetic genre with analysis and interpretation of works from each period. P-FRH 216, 315 or POI.

**FRH 364. French and Francophone Prose Fiction. (3 h)**

A broad survey of prose fiction in French, with critical study of representative works from a variety of periods. P-FRH 216, 315 or POI.

**FRH 365. French and Francophone Drama. (3 h)**

Study of the chief trends in dramatic art in French, with reading and discussion of representative plays from selected periods. P-FRH 216, 315 or POI.



**FRH 370. Seminar in French and Francophone Studies. (3 h)**

In-depth study of particular aspects of selected literary and cultural works from different genres and/or periods. A capstone course for third- and fourth-year students only. Required for major. May be repeated for credit when topics vary. P-FRH 216, 315 or POI. (CD)

**FRH 374. Topics in French and Francophone Culture. (3 h)**

Study of selected topics in French and/or francophone culture. Works will be drawn from different fields (sociology, politics, art, history, music, cinema) and may include journalistic texts, films, historical and other cultural documents. May be repeated for credit when topics vary. P-FRH 216, 315 or POI.

**FRH 375. Special Topics in French and Francophone Literature. (3 h)**

Selected themes and approaches to French and francophone literature transcending boundaries of time and genre. May be repeated for credit when topics vary. P-FRH 216, 315 or POI.

**FRH 381. French Independent Study. (1.5-3 h)**

P-POD.

**FRH 390. Directed Reading. (1.5 h)**

Required for departmental honors in French Studies.

**FRH 391. Directed Research. (3 h)**

Extensive reading and/or research to meet individual needs. Required for departmental honors in French Studies. P-POD.

## Faculty

**Chair** Kendall B. Tarte

**Professors** Judy K. Kem, Stephen J. Murphy, Kendall B. Tarte

**Associate Professor** Stéphanie Pellet

**Assistant Professors** Guillaume Coly, Ryan Schroth, Amanda S. Vincent

**Associate Teaching Professors** Elizabeth Mazza Anthony, Corinne D. Mann

**Associate Professor of the Practice** Véronique M. McNelly

## French for Business, Concentration Requirements

The concentration requires the following:

Code	Title	Hours
FRH 319	Composition and Review of Grammar	4
FRH 321	Introduction to Translation	3
FRH 329	French for Business Communication	3
FRH 330	French for Management	3

Select one additional course in French above FRH 214

## French Studies, B.A.

### Requirements

Requires a minimum of 28 hours of French courses numbered above FRH 214.

Code	Title	Hours
<b>Required Major Courses</b>		
FRH 216	Studies in French and Francophone Literature and Culture	3
FRH 315	Introduction to French and Francophone Studies	3
Or		

FRH 350	Studies in French Language and Culture (Offered in Dijon)	
FRH 319	Composition and Review of Grammar	4
FRH 370	Seminar in French and Francophone Studies	3

Select one of the following genre courses:

FRH 363	Trends in French and Francophone Poetry
FRH 364	French and Francophone Prose Fiction
FRH 365	French and Francophone Drama

Select four other courses

Students must achieve at least a C grade in FRH 319 and a GPA of 2.0 in the major. FRH 319 must be taken at Wake Forest.

## Honors

The honors designation in French Studies is a recognition of outstanding scholarship in the field, as evidenced by academic achievement, critical thinking, and intellectual initiative. Highly qualified majors selected by the French Studies faculty are invited to participate in the honors program, which candidates undertake in addition to the requirements for the major.

The honors program requires completion of:

Code	Title	Hours
FRH 390	Directed Reading	1.5
FRH 391	Directed Research	3

Directed Reading, normally taken during the fall semester of the student's final year, includes reading and discussion of a number of texts on the selected topic, and a written exam covering these texts. At the end of fall semester, the student submits an annotated bibliography and an abstract of the honors thesis. Directed Research, taken during the student's final semester, consists of writing the thesis following a schedule established by the director and the student. At the end of this course, the honors student defends the thesis orally before appropriate faculty who collectively may confer honors.

## French Studies, Minor Requirements

Requires a minimum of 18 hours of French courses numbered above FRH 214.

Code	Title	Hours
<b>Required Minor Courses</b>		
FRH 216	Studies in French and Francophone Literature and Culture	3
FRH 315	Introduction to French and Francophone Studies	3
Or		
FRH 350	Studies in French Language and Culture (Offered in Dijon)	
FRH 319	Composition and Review of Grammar	4
Select three other courses		

Students must achieve at least a C grade in FRH 319 and a GPA of 2.0 in the minor. FRH 319 must be taken at Wake Forest. Some courses are not

offered every semester; students should plan ahead in order to fulfill all requirements.

## German and Russian (GER/RUS)

The Department's aim is to guide students to proficiency in the traditional four skills of language acquisition (speaking, aural comprehension, reading and writing), and to introduce them to the broad arena of culture, including literature, arts, history, and politics. Our strong proficiency based methods of teaching in tandem with the exceptional opportunities for study abroad enable our students to achieve a higher than average level of sophistication in all of these areas.

An integral part of the mission of this department is to encourage as many majors, minors, and other interested students as possible to study abroad. We believe that study abroad in concert with their on-campus exposure to German and Russian studies assists them in thinking more objectively about American culture and language from a distanced perspective and consequently enables them to examine their own attitudes and beliefs more objectively.

In addition, the university's goal of preparing its students for their professional life is certainly enhanced by familiarity with, and close scrutiny of, foreign cultures, attitudes, languages, and economies in light of contemporary emphasis on global understanding and interaction.

## Certification

German majors are required (and German minors are strongly encouraged) to take the Zertifikat Deutsch (ZD) examination in their last semester of their senior year. The Wirtschaftsdeutsch als Fremdsprache (WiDaf) is offered at the end of Business German II, GER 330.

## Study Abroad

German majors and minors are encouraged to study abroad for at least one semester with IES (Institute for the International Education of Students) in Freiburg, Berlin or Vienna; for a summer immersion course in Jena, at the Flow House in Vienna, Austria, or at the Goethe Institute in Germany. Students may also elect to participate in an internship (3h, pass/fail) with any of the three IES study abroad programs.

## Scholarships

The department awards several W.D. Sanders scholarships for study abroad every year. Deadline is the Monday following Thanksgiving break, and students interested in IES or Goethe Institute study are invited to apply.

## GER 100/GES 100. German Pre-Orientation Tour

(Audit/1h) One-week tour for entering freshmen, Vienna Austria. Students and faculty stay at the Wake Forest Flow House. Tour includes concerts, museums, palaces and historic walking tours in the city as well as visits to the surrounding countryside and a day trip to the Abbey at Melk on the Danube. All student participants must sign up for GER 100 either as an audit or for credit. In order to receive the one hour of credit, the student must either

1. register for GER 111, GER 112, GER 113, GER 153, GER 210 or GER 212 subsequent to taking the tour or

2. complete a short paper analyzing one of the cultural events or excursions offered.

The credit will count towards the German (GER) or German Studies (GES) major or minor. Pass/Fail only.

## Study Abroad

Russian majors and minors are encouraged to study abroad for at least one semester. The university is associated with several programs in St. Petersburg and Moscow. Visit the Center for Global Programs and Studies for more information.

## Scholarships

Students may apply for the Lowell and Anne Tillett Scholarship Fund for study abroad. Scholarships are also available from the Center for Global Programs and Studies.

## Semester in Vienna

Code	Title	Hours
GER 110	Intensive Elementary German	4
GER 150	Intermediate German	4
GER 214	Masterpieces of Austrian Literature	3
GES 341	Austrian Literature in Translation	3
GES 350	Fin de Siècle Vienna	3

## Internships (GER 322)

### Winston-Salem, Forsyth County Schools

Under faculty direction, a student mentors local German students at the middle or high school level. The intern may tutor students directly or assist in structuring and coordinating German language activities or events as the head classroom teacher requests. Course requirements include but are not limited to:

1. a journal including a general description of the student's responsibilities,
2. a supporting portfolio of teaching materials along with summaries of activities and events,
3. regular consultation with Wake Forest faculty adviser in German,
4. a reflective overview composed at the end of the internship, and
5. an evaluation supplied by the head teacher at the end of the internship.

### Old Salem, North Carolina (1.5 h)

Under faculty direction, the student serves in the Old Salem Archive as a German language specialist, translating documents from German into English. Course requirements include but are not limited to:

1. faculty evaluation of work completed,
2. a portfolio of copies of translated work,
3. regular consultation with a Wake Forest faculty mentor in German,
4. an evaluation by an administrator of the Old Salem Archive.

### German Lab Assistant (1.5 h)

Lab assistant for elementary German classes.

## Pass/Fail

German and Russian courses at the 100-level may not be taken pass/fail unless the student has already fulfilled WFU's language requirement.

## Contact Information

Department of German & Russian (<http://college.wfu.edu/germanrussian/>)  
Greene Hall 333, Box 7353  
Phone 336-758-3493

## Programs

### Majors

- B.A. in German
- B.A. in German Studies
- B.A. in Russian

### Minors

- Minor in German
- Minor in German Studies
- Minor in Russian

## Courses

### German (GER)

#### GER 001. German for Reading Knowledge. (1.5 h)

For graduate students and motivated undergraduate students who will need a reading knowledge of German in their academic fields (Divinity School, Religious Studies, Philosophy, Music, etc.). Introductory training in understanding/translating a variety of texts from German into English, including grammar and vocabulary overview. No prior knowledge of German necessary. Level: Beginner to Intermediate. Taught online. Pass/Fail.

#### GER 002. German for Reading Knowledge. (1.5 h)

For graduate students and motivated undergraduate students who will need a reading knowledge of German in their academic fields (Divinity School, Religious Studies, Philosophy, Music, etc.). Continuation of grammar and vocabulary overview from GER 001, culminating in a personalized translation project. Includes German proficiency test samples. For students who have completed GER 001, or who have received instructor permission. Level: Intermediate to Advanced. Taught online. Pass/Fail.

#### GER 100. German Pre-Orientation Tour. (1 h)

#### GER 110. Intensive Elementary German. (4 h)

One-semester course covering the material of GER 111 and 112. For students whose preparation for GER 153 is inadequate or who have demonstrated proficiency in another language. Not open to students who have had GER 111 or 112. Offered only at the Flow House in Vienna.

#### GER 111. Elementary German. (4 h)

Introduction to German language and culture. First of a two-semester sequence.

#### GER 112. Elementary German. (4 h)

Introduction to German language and culture. Second of a two-semester sequence.

#### GER 113. Intensive Elementary German. (4 h)

A one-semester course covering the material of German 111 and 112. For students whose preparation for German 153 is inadequate or who have demonstrated proficiency in another language. Not open to students who have had German 111 or 112.

#### GER 150. Intermediate German. (4 h)

Review of principles of grammar; reading of selected prose and poetry. Offered only at the Flow House in Vienna. P - GER 110, GER 112, or GER 113.

#### GER 153. Intermediate German. (4 h)

Review of basic grammar; reading of selected prose and poetry. P-GER 110, GER 112 or GER 113.

#### GER 208. Introduction to German Short Fiction. (3 h)

Lecture and discussion in German. Offered only in Jena, Germany. P-GER 150 or 153 or equivalent.

#### GER 210. Encounters with the German-Speaking World. (3 h)

Formative events and figures of German-speaking cultures and the literary and political texts that define their identity. P-GER 150 or 153.

#### GER 212. Introduction to German Short Fiction. (3 h)

Introduction to short works of German literature. P-GER 150 or 153 or equivalent.

#### GER 214. Masterpieces of Austrian Literature. (3 h)

Study of masterpieces of Austrian literature of the 19th, 20th, and 21st centuries. Lecture and discussion in German. Offered only at the Flow House in Vienna P-GER 150 or 153 or equivalent.

#### GER 317. Composition and Grammar Review. (3 h)

Review of the fundamentals of German grammar with intensive practice in translation and composition. Required for majors and minors. Offered in fall. P-200-level course or POI.

#### GER 318. German Conversation. (3 h)

Vocabulary for everyday situations, fluency and pronunciation, discussion of various topics from easy to advanced, listening exercises, free speaking, oral presentations. P-200-level course or POI.

#### GER 319. Advanced Writing and Stylistics. (3 h)

Emphasis on improving and expanding writing skills and vocabulary acquisition. Introduction to writing in different genres and contexts, such as blogs, reports, summaries, opinion pieces, short stories, memoirs, emails, newspaper articles, and fairy tales. Includes a creative writing component, relevant grammar topics, and readings in Young Adult Literature. P-200-level course or POI.

#### GER 320. German Culture and Civilization I. (3 h)

Survey of German culture and civilization from prehistoric times to 1848. Conducted in German. P-200-level course or POI. (CD)

#### GER 321. German Culture and Civilization II. (3 h)

Survey of German culture and civilization from 1848 to the present, with emphasis on contemporary Germany. Conducted in German. P - 200-level course or POI. (CD)

#### GER 322. Internship in German Language. (0.5-3 h)

May be repeated for a total of 6 hours, only 3 of which may count towards the major or minor. Pass/Fail only. P- GER 317 or POI.

#### GER 329. Business German I. (3 h)

Emphasis on social market economy, writing resumes, the European Union, job ads and job interviews, current topics in German business, oral proficiency, business correspondence, grammar review, business etiquette, banking, and financing. P-GER 317 or POI.

#### GER 330. Business German II. (3 h)

Prepares students for the internationally acknowledged exam Wirtschaftsdeutsch als Fremdsprache, which is offered at the end of the semester. Other topics include: writing a business plan, the structure of German companies, current topics in German business, oral proficiency, business correspondence, and business theory. P-GER 329 or POI.

**GER 350. German-Jewish Literature and Culture. (3 h)**

An examination of the German literary representation of Jews and Judaism in the last two centuries. Through text by both Jewish and non-Jewish authors, the course explores the nationalistic, economic, and racial motivations behind anti-Semitism, as well as Jewish self-awareness within the German-speaking culture. Topics to be covered include the Enlightenment, 19th-century nationalism, and Holocaust. The course culminates with works by recent German-Jewish authors. P-200-level course or POI.

**GER 370. Individual Study. (1-3 h)**

Readings on selected topics in literature or current events not ordinarily covered in other courses. May be repeated once for major/minor elective credit. P - 200-level course and POI.

**GER 380. German Literature before 1700. (3 h)**

Survey of German literature of the Middle Ages, Reformation, and Baroque eras; emphasizes the chivalric period, Martin Luther, and the Baroque period. Offered in fall. P-200-level course or POI.

**GER 381. German Literature from 1700-1815. (3 h)**

Selected works from the Enlightenment, the Storm and Stress period, the poetry and major dramas of Goethe and Schiller, and German Romanticism. Offered in fall. P - 200-level course or POI.

**GER 383. German Literature from 1815-1900. (3 h)**

Study of selected works from the Realist period and subsequent Naturalist movement, with attention to their historical and social contexts. Offered in fall. P-200-level or POI.

**GER 385. German Literature from 1900 to Present. (3 h)**

Intensive study of representative works of major German, Austrian, and Swiss authors of the 20th and 21st centuries. Offered in fall. P - 200-level course or POI. (CD)

**GER 387. Honors in German. (2.5 h)**

Conference course in German literature or culture. A major research paper is required. Designed for candidates for departmental honors.

**GER 388. Honors in German. (2.5 h)**

Conference course in German literature or culture. A major research paper is required. Designed for candidates for departmental honors.

**GER 399. Seminar in the Major. (3 h)**

Intensive examination of a selected genre or special topic to be determined by the instructor. Intensive practice in critical discourse, including discussion and an oral presentation in German. Introduction to literary scholarship and research methodology leading to a major research paper. Required for all majors. May be repeated. Offered in spring. P-GER 350, 380, 381, 383, 385 or POI.

## German Studies (GES)

All GES courses are taught in English

In addition to the courses listed under the German major, the German Studies major also offers the following courses. No courses completed elsewhere may satisfy Division II credit.

**GES 100. German Pre-Orientation Tour. (1 h)****GES 331. Weimar Germany. (3 h)**

Art, literature, music, and film of Weimar Germany, 1919-1933, in historical context. Also listed at HST 318.

**GES 335. German Film. (3 h)**

Survey of German cinema from the silent era to the present.

**GES 336. Special Topics in German Film. (3 h)**

Examination of a topic, movement, or director (to be determined by instructor).

**GES 337. Myth and National Identity Formation. (3 h)**

Explores the philosophical, social, religious, and political background of Germany and Austria in the context of the Nibelung cycle. Students read selected works of Tacitus, medieval epics, medieval poetry, Herder, Wagner, Nietzsche, and Adorno. (D)

**GES 340. German Masterworks in Translation. (3 h)**

Examines selected works of German, Austrian, and Swiss fiction in English translation by such writers as Goethe, Schiller, Kafka, Mann, and Schnitzler. Literary periods, genres, and authors vary according to instructor. Can also be offered online in summer. (D)

**GES 341. Austrian Literature in Translation. (3 h)**

Examines the literature of Austria from the decline of the Habsburg Empire to the present day. Intended for current and/or prospective German major or minors. (D)

**GES 345. History of the German Language. (3 h)**

Survey of the development of the German language from prehistoric times to modern day German. Topics include: From Indo-European to Germanic, phonetical and lexical changes of the German language, Old High German, Middle-High German, Early New High German, and Modern Standard German. No prior knowledge of linguistics necessary.

**GES 350. Fin de Siècle Vienna. (3 h)**

Survey of major developments in Viennese art, music, literature, and society from roughly 1889 to 1918. Important figures to be discussed are Mahler, Schoenberg, Klimt, Schiele, Schnitzler, Musil, Freud, and Herzl. Offered only at the Flow House in Vienna. (D)

**GES 351. German-Jewish Literature and Culture. (3 h)**

Explores the history of relations, cross-cultural influences, and prejudices between German Jews and Christians in literature from the Middle Ages to the present. Texts and discussions will also draw attention to pertinent contemporary issues, such as various forms of intolerance and the complexity and malleability of religious identity. (D)

**GES 390. German Women Writers. (3 h)**

Examination of selected works by women authors. Literary periods, genres, and authors vary according to instructor. (D)

**GES 391. Germanic Myths and Monsters. (3 h)**

Examines myths and monsters in medieval and modern discourse of the German-speaking countries. Students read selected works such as the Edda, medieval epics and romances, as well as nineteenth- and twentieth-century authors. P - 200 level course or equivalent. (D)

**GES 393. Luther. (3 h)**

Examines the social political, and religious background of Germany on the eve of the Reformation, traces the formative (sometimes legendary) events of Luther's life, and explores several of his most important tracts, his translation of the Bible, and his more notorious confrontations and opponents. (D)

**GES 394. German Myths, Legends and Fairy Tales. (3 h)**

Study of German myths, legends and fairy tales since the Middle Ages and their role in the formation of German national identity. (D)

**GES 395. Special Topics in German Studies. (3 h)**

Individual topics vary by instructor. (D)

**GES 396. The German Novel. (3 h)**

Introduction to novels by German, Swiss, and Austrian authors. (D)

**GES 397. Intellectual History of Weimar. (3 h)**

Examines the philosophical, political and literary works that gave rise to the mythical status of Weimar as the intellectual heart of Germany. Students read selected works by Luther, Goethe, Schiller, Fichte and the Jena Romantics. (D)

## Russian (RUS)

**RUS 111. Elementary Russian I. (4 h)**

The essentials of Russian grammar, conversation, drill, and reading of elementary texts.

**RUS 112. Elementary Russian II. (4 h)**

The essentials of Russian grammar, conversation, drill, and reading of elementary texts. P-RUS 111 or equivalent.

**RUS 153. Intermediate Russian. (4 h)**

Principles of Russian grammar are reviewed and expanded upon; reading of short prose pieces and materials from the Russian press. P-RUS 112 or equivalent.

**RUS 210. Russians and Their World. (3 h)**

Introduction to Russian culture and society, with topics ranging from history, religion, art and literature to contemporary Russian popular music, TV and film. Taught in Russian. P-RUS 153 or equivalent.

**RUS 212. Introduction to Russian Literature. (3 h)**

Reading of selected short stories and excerpts from longer works by Russian authors from the 19th century to the present. P-RUS 153 or equivalent.

**RUS 317. Seminar in Russian Literature. (3 h)**

In-depth reading and discussion of shorter works of poetry and prose by the foremost Russian authors from the 19th century to the present. P-RUS 212.

**RUS 321. Conversation and Composition. (3 h)**

Intensive practice in composition and conversation based on contemporary Russian materials. P - RUS 210 or 212.

**RUS 328. Advanced Grammar. (3 h)**

Mastery of Russian declension and conjugation, with special attention to the correct use of reference materials. Syntax of complex and problematic sentences. P-RUS 321.

**RUS 330. Structure of Russian. (3 h)**

The linguistic tools of phonetics, phonemics, and morphophonemics are explained and applied to modern Russian. Emphasis on the study of roots and word formation. P-POI.

**RUS 332. The History of Russian Language. (3 h)**

The evolution of Russian from Common Slavic to the modern language; theory of linguistic reconstruction and the Indo-European family; readings from selected Old East Slavic texts. P-RUS 321 and POI.

**RUS 335. Russian Culture and Civilization. (3 h)**

Survey of Russian culture and civilization with emphasis on contemporary events, politics, and music and art. Conducted in Russian. Offered spring. P-RUS 321 or POI.

**RUS 340. Seminar in Translation. (3 h)**

Advanced work in English-to-Russian and Russian-to-English translation. P-RUS 321 and POI.

**RUS 341. Russian Literature in Translation. (3 h)**

Reading and discussion of selected works from Russian literature in English translation by such writers as Gogol, Dostoevsky, Tolstoy, Bulgakov, and Solzhenitsyn. (D)

**RUS 345. Special Topics in Russian. (3 h)**

P-RUS 321, and Permission of Instructor.

**RUS 354. Language of the Russian Press and Mass Media. (3 h)**

Readings from Russian newspapers, magazines and the Internet, as well as exposure to Russian television and radio broadcasts. Emphasis is on improving reading and listening skills and vocabulary acquisition. P-RUS 212 or POI.

**RUS 370. Individual Study. (1.5-3 h)**

Study in language or literature beyond the RUS 210-212 level. May be repeated for credit. P-RUS 212.

**RUS 387. Honors in Russian. (2.5 h)**

Conference course in Russian literature or culture. A major research paper is required. Designed for candidates for departmental honors.

**RUS 388. Honors in Russian. (2.5 h)**

Conference course in Russian literature or culture. A major research paper is required. Designed for candidates for departmental honors.

## Faculty

**Chair** Alyssa Howards

**Professors** William S. Hamilton (Russian Linguistics), Rebecca S. Thomas (German, Flow House Vienna, Austria)

**Associate Professors** Alyssa Howards (German, Post-Graduate Fellowships), Grant P. McAllister (German, Study Abroad), Heiko Wiggers (Business German Relations and Internships), Tina M. Boyer (German, Medieval Studies, Self-Instructional Languages)

**Assistant Professor** Elena Pedigo Clark (Russian Language and Literature)

**Associate Teaching Professor** Mary (Molly) Knight (German, Contemporary German Literature)

**Instructors** Günter Haika (Resident German Language Instructor and House Manager for Flow House Vienna, Austria), Martina Kritinar (Resident German Language Instructor for Flow House Vienna, Austria), Ulrike Anton (Resident Music Instructor of Flow House Vienna, Austria), Martin Schwarz (Resident Economics Instructor for Flow House Vienna, Austria), Stefan Wedrac (Resident History Language Instructor for Flow House Vienna, Austria)

## German Studies, B.A.

### Requirements

Requires 27 hours beyond GER 153 to include:

Code	Title	Hours
Select at least one of the following:		3
GER 208	Introduction to German Short Fiction (offered only in Jena)	
GER 210	Encounters with the German-Speaking World	
GER 212	Introduction to German Short Fiction	
GER 214	Masterpieces of Austrian Literature (Vienna)	
Select one of the following:		6
GES 331	Weimar Germany	
GES 335	German Film	
GES 336	Special Topics in German Film	
GES 337	Myth and National Identity Formation	
GES 345	History of the German Language	

Select two of the following: *	3
GES 340 German Masterworks in Translation	
GES 341 Austrian Literature in Translation	
GES 351 German-Jewish Literature and Culture	
GES 390 German Women Writers	
GES 393 Luther	
GES 394 German Myths, Legends and Fairy Tales	
GES 395 Special Topics in German Studies	
GES 396 The German Novel	
GES 397 Intellectual History of Weimar	
Select five electives **	15

\* Students may take more than one course from the GES 390-GES 397 sequence for elective credit.

\*\* Two and only two of which must be from external departments (art, music, history, religion, political science, philosophy). See [www.wfu.edu/germanrussian/germProgram.htm](http://www.wfu.edu/germanrussian/germProgram.htm) (<http://www.wfu.edu/germanrussian/germProgram.htm>) for approved courses.

## German Studies, Minor

### Requirements

Requires 15 hours beyond GER 153 to include:

Code	Title	Hours
Select at least one of the following:		3
GER 208	Introduction to German Short Fiction (offered only in Jena)	
GER 210	Encounters with the German-Speaking World	
GER 212	Introduction to German Short Fiction	
GER 214	Masterpieces of Austrian Literature (Vienna)	
Select one of the following:		3
GES 331	Weimar Germany	
GES 335	German Film	
GES 336	Special Topics in German Film	
GES 337	Myth and National Identity Formation	
GES 345	History of the German Language	
Select one of the following:		3
GES 340	German Masterworks in Translation	
GES 341	Austrian Literature in Translation	
GES 351	German-Jewish Literature and Culture	
GES 390	German Women Writers	
GES 393	Luther	
GES 394	German Myths, Legends and Fairy Tales	
GES 395	Special Topics in German Studies	
GES 396	The German Novel	
GES 397	Intellectual History of Weimar	
Select two Electives *		

\* One and only one of which must be from external departments (art, music, history, religion, political science, philosophy).

## German, B.A.

### Requirements

Requires 27 hours beyond GER 153 to include:

Code	Title	Hours
GER 317	Composition and Grammar Review	3
Select at least one of the following:		3
GER 208	Introduction to German Short Fiction (offered only in Jena)	
GER 210	Encounters with the German-Speaking World	
GER 212	Introduction to German Short Fiction	
GER 214	Masterpieces of Austrian Literature (offered only in Vienna)	
Select at least one of the following:		3
GER 380	German Literature before 1700	
GER 381	German Literature from 1700-1815	
GER 383	German Literature from 1815-1900	
GER 385	German Literature from 1900 to Present	
GER 399	Seminar in the Major	3

No more than two GES courses may count in the major

### Honors

Highly qualified majors will be invited by the department to participate in the honors program in German. To be graduated with the designation "Honors in German," students must complete a senior research project and maintain a grade point average of at least 3.0 overall and 3.3 in German. For additional information, members of the departmental faculty should be consulted.

## German, Minor

### Requirements

Requires 15 hours beyond GER 153, to include:

Code	Title	Hours
GER 317	Composition and Grammar Review	3
Select at least one of the following:		3
GER 208	Introduction to German Short Fiction (offered only in Jena)	
GER 210	Encounters with the German-Speaking World	
GER 212	Introduction to German Short Fiction	
GER 214	Masterpieces of Austrian Literature (offered only in Vienna)	
Select at least one of the following:		3
GER 380	German Literature before 1700	
GER 381	German Literature from 1700-1815	
GER 383	German Literature from 1815-1900	
GER 385	German Literature from 1900 to Present	
May count only one GES course towards the minor		

## Russian, B.A.

### Requirements

Requires 24 hours beyond RUS 153 and must include:

Code	Title	Hours
RUS 210	Russians and Their World	3
or RUS 212	Introduction to Russian Literature	
RUS 317	Seminar in Russian Literature	3
RUS 321	Conversation and Composition	3
RUS 328	Advanced Grammar	3

## Russian, Minor

### Requirements

Requires 15 hours beyond RUS 153 and must include:

Code	Title	Hours
RUS 210	Russians and Their World	3
or RUS 212	Introduction to Russian Literature	
RUS 321	Conversation and Composition	3

## Global Trade and Commerce Studies (GTCS)

Interdisciplinary Minor

Globalization has proliferated in the 21<sup>st</sup> century due to advances in transportation and communication technology. As a result, interaction between people and companies has increased on a worldwide scale. Therefore, an understanding of the global nature of transactions among corporate and social enterprises can impact one's career success.

The Global Trade and Commerce minor seeks to provide such understanding by offering students in the College and in the School of Business an opportunity to complement their major field of study with coursework having both a global focus and a significant business or economics component. This coursework spans business, the humanities, literatures, and social sciences. Furthermore, students are required to participate in a study abroad experience for academic credit. As a capstone, seniors pursuing the minor must take a course designed to synthesize their individual and collective learning from previous courses taken towards Global Trade and Commerce.

For students in the College, the minor provides an opportunity to delve into aspects of history, economics, policy, and cultures related to global enterprises. For students in the Business School, the minor fulfills the concentration in international business for Business and Enterprise Management (BEM) majors.

### Contact Information

Global Trade and Commerce Studies (<https://global.wfu.edu/global-campus/international-minors/global-trade-commerce-studies/>)

### Programs

#### Minor

- Minor in Global Trade and Commerce Studies

## Faculty

Coordinator, Associate Provost for Global Affairs J. Kline Harrison  
Professor Ian Taplin

## Global Trade and Commerce Studies, Minor

### Requirements

Consists of a total of 15 hours. Candidates for the minor will be required to take:

Code	Title	Hours
INS 260	Seminar in Global Trade and Commerce Studies (preferably during senior year)	3
Select 12 additional hours in GTCS *		12

\* *Must include a study abroad experience for credit. (International students residing in the US in a non-immigrant visa status are exempt from the study abroad requirement.)*

No more than 6 of the 15 hours for the minor may be taken in a single discipline or within the School of Business.

The following list contains courses within Wake Forest University that qualify as a GTCS course. Courses taken during the study abroad experience which may qualify as a GTCS course also will be reviewed and approved by the coordinator of the minor.

### Elective Courses for Global Trade and Commerce Studies

Additional elective courses may have been approved since publication of this bulletin. The program coordinator maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this publication.

Code	Title	Hours
ANT 337	Economic Anthropology	3
BEM 312	Human Resource Management (Salamanca only)	3
BEM 315	Managing in a Global Context	3
BEM 322	Global Marketing Strategy	3
BEM 375	Contemporary Issues in Business and Foundations of Capitalism	3
BEM 391	Global Business Studies (abroad credit only)	3
CHI 255	Business Chinese	3
COM 350	Intercultural Communication	3
COM 351A	Comparative Communication: Japan	1.5,3
or COM 351B	Comparative Communication: Russia	
or COM 351C	Comparative Communication: Great Britain	
or COM 351D	Comparative Communications: Multiple Countries	
or COM 351E	Comparative Communication: China	
COM 354	International Communication	3
ECN 323	Financial Markets	3
ECN 351	International Trade	3
ECN 352	International Finance	3

ECN 358	Economic Growth and Development	3	SPA 326	International Business: Spain/Latin America	3
ECN 271	Selected Areas in Economics (Salamanca, Cambridge, or pre-approved only)	3	SPA 327	Spanish for Business II	3
ECN 372	Selected Areas in Economics (Cambridge, or pre-approved only)	3	SPA 380	Spanish for the Professions	3
ENT 200	Foundations of Entrepreneurship: Identifying and Cultivating Valuable Ideas (Barcelona only)	3	SPA 387	Cultural Industries and Institutions in Spain and Spanish America	3
ENT 322	Religion, Poverty, and Social Entrepreneurship	3	SPA 388	Global Negotiation and Conflict-Management Skills in a Spanish-Speaking Setting	3
ENT 325	Free Trade, Fair Trade: Independent Entrepreneurs in the Global Market	3	SPA 390	International Business: Spain and Latin America	3
FIN 234	International Finance	3	SPA 391	Internship in Spanish for Business and the Professions	1.5-3
FRH 329	French for Business Communication	3			
FRH 330	French for Management	3			
GER 329	Business German I	3			
GER 330	Business German II	3			
HST 105	Africa in World History	3			
HST 108	Americas and the World	3			
HST 109	Asia and the World	3			
HST 224	Great Britain since 1750	3			
HST 231	Russia and Soviet Union: 1865 to Present	3			
HST 243	Middle East since 1500	3			
HST 245	Modern China since 1850	3			
HST 247	Japan since 1600	3			
HST 249	Intro to East Asia	3			
HST 251	Modern South Asia	3			
HST 257	The U.S and the World since 1914	3			
HST 275	Modern Latin America	3			
HST 310	20th Century Eastern Europe	3			
HST 347	The Rise of Asian Economic Power since WWII	3			
HST 350	World Economic History: Globalization, Wealth and Poverty, 1500-Present	3			
INS 229	Internship in International Studies	1-3			
POL 232	Politics in Russia and Eastern Europe	3			
POL 235	European Integration	3			
POL 238	Comparative Economic Development and Political Change	3			
POL 239	State, Economy, and International Competitiveness	3			
POL 242	Topics in Comparative Politics	3			
POL 253	International Political Economy	3			
POL 256	International Security	3			
POL 257	Politics of International Development	3			
POL 260	United States and East Asia	3			
POL 262	International Organizations	3			
PSY 357	Cross-Cultural Psychology	3			
REL 344	Religion, Poverty, and Social Entrepreneurship	3			
SOC 363	Global Capitalism	3			
SOC 365	Technology, Culture, and Change	3			
SPA 195	Spanish Language and Culture	1-3			
SPA 325	Spanish for Business I	3			

## Health and Exercise Science (HES)

The purpose of the Health and Exercise Science Department is to advance knowledge through research and to disseminate the knowledge in this field of study through education of and service to humanity. The primary focus of the department is promoting health and preventing and treating disease through healthful behaviors, emphasizing physical activity and nutrition.

All students must complete:

Code	Title	Hours
HES 100	Lifestyles and Health	1

This requirement must be met before enrollment in additional health and exercise science 100 level HES courses, and in any case by the end of the second year.

## Contact Information

Health and Exercise Science (<http://college.wfu.edu/hes/>)  
Worrell Professional Center 2164B, Box 7868  
Phone 336-758-5391

## Programs Major

- B.S. in Health and Exercise Science

## Courses

### Health and Exercise Science (HES)

#### HES 100. Lifestyles and Health. (1 h)

A lecture course that deals with the effect of lifestyle behaviors on various health outcomes, including cardiovascular disease, cancer, and sexually-transmitted diseases.

#### HES 101. Exercise for Health. (1 h)

A laboratory course on physical fitness that covers weight control, cardiovascular endurance, muscular strength, and flexibility.

#### HES 112. Sports Proficiency. (1 h)

#### HES 120. Fitness Activities. (1 h)

This course is designed to promote health and well-being through a variety of exercise and skill based activities. The course focuses on providing the knowledge and skills needed for lifetime participation in these activities. Pass/fail only. May be repeated for up to 4 hours of credit if activities differ.



**HES 232. Emergency Medical Training. (3 h)**

Lectures and practical experiences in preparation for responding to medical emergencies, including: patient assessment; airway management; cardiopulmonary resuscitation; O<sub>2</sub> therapy; management of shock; trauma and environmental emergencies; and head/spine/musculoskeletal injuries. Clinical hours and Saturday classes are required. EMT certification is offered, attendance is required for State and National Certification testing. Pass/fail only.

**HES 262. Statistics in the Health Sciences. (3 h)**

Basic statistics with an emphasis on application to research in the health sciences. Students are introduced to graphics and statistical software for statistical analysis. (QR)

**HES 310. Clinical Externship. (1, 2 h)**

Application of theory and methods of solving problems in a specialized area according to the student's immediate career goals. Open only to majors. Pass/Fail only. P-POI.

**HES 311. Clinical Internship. (1, 2 h)**

A semester experience in the campus rehabilitation or clinical research programs. Work includes active participation with individuals and groups with clinical conditions, such as heart disease, pulmonary disease, osteoarthritis, and obesity. Focus is on multiple intervention strategies, in conjunction with participation in physiologic monitoring of patients during therapeutic sessions. Open only to majors. Pass/Fail only. P-POI.

**HES 312. Exercise and Health Psychology. (3 h)**

A survey of the psychological antecedents of exercise and selected topics in health psychology with particular attention to wellness, stress, the biobehavioral basis of coronary heart disease, and the psychodynamics of rehabilitative medicine. P-HES 262 or POI.

**HES 320. Mindfulness Meditation in Behavioral Medicine. (2 h)**

Study of contemplative science and in the realm of behavioral medicine. Content includes recent evidence from neuroscience and outcome research on both mindfulness-based stress reduction and mindfulness-based cognitive therapy. Taught in a seminar format with laboratory experience. Pass/Fail only. P-POI.

**HES 350. Human Physiology. (3 h)**

A lecture course which presents the basic principles and concepts of the function of selected systems of the human body, with emphasis on the muscular, cardiovascular, pulmonary, and nervous systems.

**HES 350L. Human Physiology Lab. (1 h)**

A laboratory course that coincides with HES 350 human physiology lecture course. P or C-HES 350.

**HES 351. Nutrition in Health and Disease. (3 h)**

Lecture course which presents the principles of healthy nutrition including an understanding of nutrients and their metabolism as well as the impact of nutrition on weight management and chronic diseases. P-HES 350 or POI.

**HES 352. Human Gross Anatomy. (4 h)**

Lecture/laboratory course in which the structure and function of the musculoskeletal, neuromuscular, pulmonary, and cardiovascular systems are studied using dissected human cadavers.

**HES 353. Physiology of Exercise. (3 h)**

A lecture course which presents the concepts and applications of the physiological response of the human body to physical activity. Acute and chronic responses of the muscular and cardiorespiratory systems to exercise are examined. P-HES 350 or POI.

**HES 354. Assessment Techniques in Health and Exercise Science. (3 h)**

A lecture/laboratory course to develop clinical skills and knowledge in the assessment of health in areas of exercise physiology, nutrition/metabolism, biomechanics/neuromuscular function, and health psychology. The laboratory will emphasize use of instrumentation and analysis/interpretation of data collected on human subjects. P-HES 262, HES 350 and 352; or POI. (QR)

**HES 355. Exercise Programming. (1.5 h)**

Lecture/laboratory course which presents the scientific principles of safe and effective exercise prescription for fitness programs. P-HES 350 or POI.

**HES 360. Epidemiology. (3 h)**

Introduction to basic epidemiologic principles and methods used to assess disease occurrence and association between risk factors and health outcomes in human populations. Emphasis is placed on modifiable exposures (e.g. diet and physical activity) and chronic disease outcomes. P - An applied statistical methods course, such as ANT 380, BIO 380, BEM 202, HES 262, PSY 311, SOC 271, or STA 111; or POI. (QR)

**HES 362. Experimental Design for Clinical and Translational Health Science Research. (3 h)**

Examination of scientific methods as applied to Clinical and Translational Health Science Research. Emphasis is placed on understanding the strengths and weaknesses for a broad range of study designs that can be found in the health sciences. Special emphasis is placed on randomized controlled trials, bioethics, the interpretation of data within the context of internal and external validity, as well as skills in reviewing the scientific literature. P - An applied statistics course such as ANT 380, BIO 380, BEM 201, HES 262, PSY 311, SOC 271, or STA 111; or POI.

**HES 370. Biomechanics of Human Movement. (3 h)**

Study of the mechanical principles which influence human movement, sport technique, and equipment design. P-HES 352 or POI.

**HES 372. Anatomy Dissection Laboratory. (2 h)**

A laboratory course that involves human cadaver dissection of the musculoskeletal, neuromuscular, pulmonary, and cardiovascular systems. Open only to majors. P-POI.

**HES 375. Advanced Physiology of Exercise. (3 h)**

A lecture course which provides an in-depth examination of the physiological mechanisms responsible for both the acute and chronic changes which occur with exercise. Included are metabolic and cellular changes in response to exercise, as well as the alterations of the major organ systems from acute and chronic exercise training. P - HES 353 or POI.

**HES 376. Interventions in Behavioral Medicine. (3 h)**

Seminar course providing an overview of the development, implementation, and evaluation of interventions within the context of behavioral medicine. Attention is given to behavior change theories that have served as the framework for physical activity and weight loss interventions. Hands-on experience is included with current interventions through peer counseling and case study analysis.

**HES 382. Individual Study. (1-2 h)**

Independent study directed by a faculty adviser. The student must consult the adviser before registering for this course. Open only to majors. May be repeated for up to 4 hours of credit. P-POI.

**HES 384. Special Topics in Health and Exercise Science. (1.5-3 h)**

Intensive investigation of a current scientific research topic in health or exercise science with focus on a specific topic.

**HES 386. Honors Research. (2 h)**

Directed study and research in preparation for a major paper on a subject of mutual interest to the student and faculty honors adviser. Taken only by candidates for departmental honors. P-POI, approval of departmental honors committee, and prior completion of a 2-hour Individual Study.

**HES 388. Field Internship in Health Sciences. (3 h)**

An extensive hands-on experience in a discipline of the health sciences related to the student's career goals. This internship occurs outside the Wake Forest University community. Open only to majors. Pass/Fail only. P-POI.

## Faculty

**Chair** Peter H. Brubaker

**Associate Chair** Gary D. Miller

**Professors** Michael J. Berry, Peter H. Brubaker, Anthony P. Marsh, Stephen P. Messier, Shannon L. Mihalko, Gary D. Miller, Patricia A. Nixon

**Associate Professors** Kristen M. Beavers, Jeffrey A. Katula

**Assistant Professor** Jason T. Fanning

**Research Professor** W. Jack Rejeski

**Associate Professors of the Practice** James H. Ross, Sharon K. Woodard

**Assistant Professor of the Practice** Abbie P. Wrights

**Part-time Assistant Professor of the Practice** Natascha L. Romeo

**Visiting Assistant Professors** Ashley E. Boggs, Edward H. Eaves

**Adjunct Assistant Professor** Kimberly C. Philips

**Adjunct Lecturers** Meghan E. Belanger, Michelle C. Carter, Jerry Hopping, Dave Lockwood, Kathryn Tozier

## Health and Exercise Science, B.S.

### Requirements

A major requires 31 hours in health and exercise science and must include:

Code	Title	Hours
<b>Required Major Courses *</b>		
HES 262	Statistics in the Health Sciences	3
HES 312	Exercise and Health Psychology	3
HES 350 & 350L	Human Physiology and Human Physiology Lab	4
HES 351	Nutrition in Health and Disease	3
HES 352	Human Gross Anatomy	4
HES 353	Physiology of Exercise	3
HES 354	Assessment Techniques in Health and Exercise Science	3
HES 360	Epidemiology	3
HES 370	Biomechanics of Human Movement	3
Select two hours of the following:		2
HES 232	Emergency Medical Training	
HES 310	Clinical Externship	
HES 311	Clinical Internship	
HES 320	Mindfulness Meditation in Behavioral Medicine	
HES 355	Exercise Programming	
HES 372	Anatomy Dissection Laboratory	
HES 375	Advanced Physiology of Exercise	
HES 376	Interventions in Behavioral Medicine	
HES 382	Individual Study	

HES 384	Special Topics in Health and Exercise Science
HES 386	Honors Research
HES 388	Field Internship in Health Sciences
ANT 360	Anthropology of Global Health
ANT 362	Medical Anthropology
BIO 346 & 346L	Neurobiology and Neurobiology Lab
BIO 353	Functional Neuroanatomy
BIO 354	Methods in Neuroscience
BIO 361	Principles of Biological Microscopy
BIO 362	Immunology
BIO 363	Sensory Biology
BIO 365	Biology of the Cell
BIO 367	Virology
BIO 370	Biochemistry I: Macromolecules and Metabolism
BIO 372	Advanced Molecular Biology
BIO 383	Genomics
CHM 370	Biochemistry I: Macromolecules and Metabolism
CHM 373	Biochemistry II
CNS 334	Ethics in Health and Human Services
CNS 335	Health and Human Services in a Diverse Society
CNS 337	Skills in Human Services
CNS 340	Professional Orientation to Health and Human Services
COM 356	Health Communication: Patient-Provider
COM 357	Health Communication and Bioethics
COM 358	Health Communication and Bioethics
COM 370	Special Topics (Communicating for Health Behavior Change)
ECN 240	Economics of Health and Medicine
HPA 150	Introduction to Public Health
HMN 390	Directed Writing
PHI 161	Introduction to Bioethics
PHI 368	Concepts of Health & Disease
PHI 373	Philosophy of Science
PSY 241	Developmental Psychology
PSY 243	Biopsychology
PSY 322	Psychopharmacology
SOC 335	Sociology of Health and Illness
SOC 336	Sociology of Healthcare
STA 212	Statistical Models
STA 247	Design and Sampling
SPM 302	Advanced Athletic Training

### Co-Requirements

BIO 150 & 150L	Biology I and Biology I Lab	4
CHM 111 & 111L	College Chemistry I and College Chemistry I Lab	4

- \* No more than 2 of the 10 required courses may be transferred from another institution after matriculation at WFU.

Majors are not allowed to apply any HES 100-level courses toward the 31 hours required for graduation. A minimum grade point average of 2.0 is required for graduation in courses that comprise a major in the department.

## Honors

Highly qualified majors are invited by the department to apply for admission to the honors program in health and exercise science during the second semester of the junior year. To be graduated with the designation "Honors in Health and Exercise Science," a student must have a minimum grade point average of 3.4 in the major, a minimum overall grade point average of 3.4, and complete an honors research project which includes a written and an oral report. Interested students should consult the coordinator of the department's honors program. For more information, please consult the department's website at [www.wfu.edu/hes](http://www.wfu.edu/hes) (<http://www.wfu.edu/hes/>).

## Health Policy and Administration (HPA)

Interdisciplinary Minor

The health policy and administration minor is designed to give students a concentration in the area of public health policy and the study of health care delivery. It is open to all majors and places an emphasis on providing students with the analytical methods and knowledge of institutional complexity necessary to an understanding of the rapidly evolving medical industry. Students interested in either public health policy or administrative roles in health care could benefit from the minor.

## Contact Information

Health Policy and Administration (<http://college.wfu.edu/hpa/>)

## Programs Minor

- Minor in Health Policy and Administration

## Courses

### HPA 150. Introduction to Public Health. (3 h)

Survey of the basic structure of the health care system in the United States. Includes discussion of current issues of public policy toward health, organization of health care delivery, and health system reform. Serves as the introduction to the interdisciplinary minor in health policy and administration. Offered fall semester only.

### HPA 250. Internship in Health Policy and Administration. (3 h)

A semester experience in a health care policy or health care administration organization. Students will work in conjunction with a director who is a researcher on a public health science research project or with an administrator in health care delivery. Students gain relevant practical experience that builds on prior coursework and provides insight into public health policy issues. Open only to senior health policy and administration students. P-HPA 150, completion of one other course, and POI.

### HPA 262. Special Topics. (3 h)

Seminar and/or lecture courses in selected topics. May be repeated if topic differs.

## Faculty

Director, Professor of Health and Exercise Science Patricia A. Nixon

## Health Policy and Administration, Minor

### Requirements

The coursework requires the following five courses (3 hours each), for a total of 15 hours, plus some notable prerequisites (see individual course descriptions for details):

Code	Title	Hours
HPA 150	Introduction to Public Health	3
HPA 250	Internship in Health Policy and Administration	3
ECN 240	Economics of Health and Medicine	3
HES 360	Epidemiology	3
	Elective in Health Policy and Administration *	3

- \* Various cross-listed, health-related courses. Some examples of pre-approved electives are given below. The HPA director can approve other courses that might satisfy this requirement.

## Elective Courses for Health Policy and Administration

May choose one course from the following electives. Additional elective courses may have been approved since publication of this bulletin. For course descriptions, see the relevant department's listings in this publication.

Code	Title	Hours
ANT 362	Medical Anthropology	3
HES 312	Exercise and Health Psychology	3
HPA 262	Special Topics	3
HST 311	Special Topics in History (when topic is Controversies in American Medical History)	3
HST 339	Sickness and Health in American History	3
PHI 161	Introduction to Bioethics	3
POL 216	U.S. Social Welfare Policy	3
PSY 322	Psychopharmacology	3
SOC 335	Sociology of Health and Illness	3

As many of the required courses involve prerequisites, students should plan ahead to ensure they can meet all of the requirements in four years. The following schedule suggestions may be helpful:

Code	Title	Hours
<b>First Year</b>		
Core and Divisional Requirements, including:		
ECN 150	Introduction to Economics	3
<b>Sophomore</b>		
Applied Statistics (various departmental courses)		

Junior		
HPA 150	Introduction to Public Health (fall)	3
HES 360	Epidemiology (spring)	3
Elective		3
Senior		
HES 360	Epidemiology (fall)	3
Elective		3
ECN 240	Economics of Health and Medicine (fall)	3
HPA 250	Internship in Health Policy and Administration (spring)	3

Students are advised to declare the minor early, before completing the coursework.

## History (HST)

Historians collect, organize, and explain complex data. With impressive skills in critical reading, research, analysis, writing, and public speaking, our majors are prepared for a wide range of professions. Wake Forest's history majors pursue careers that range across entrepreneurship, education, government service, healthcare, public-interest foundations, publishing, consulting, journalism, and beyond. Our students also find their studies in history excellent preparation for graduate study in law, business, and the arts and sciences.

Our faculty's research and teaching investigate the political, religious, social, cultural, and economic ideas and institutions that people have used to order their lives. Our curriculum introduces students to historical methodologies and the fundamentals of research and writing. We work together to understand history both as a scholarly discipline and as a framework for intellectual inquiry.

When Wake Forest students explore the past, they confront the diverse contexts in which people have lived and they analyze the choices and forces that have produced our world.

## Divisional Credit

Only courses designated by a (D) receive divisional credit. Wake Forest students cannot receive divisional credit for history courses taken at other institutions or study abroad courses not designated by a (D) in the course list below. History courses of students who are transferring to Wake Forest from other institutions will be considered on a case-by-case basis. Students with two AP courses (6 credit hours) in History may take any 200- or 300-level course for divisional credit, with the exception of courses numbered 390 and above.

Students contemplating graduate study should acquire a reading knowledge of one modern foreign language for the master of arts degree and two for the PhD.

## Contact Information

Department of History (<http://college.wfu.edu/history/>)  
Tribble Hall B101, Box 7806  
Phone 336-758-5501

## Programs

### Major

- B.A. in History

### Minor

- Minor in History

## Courses

### History (HST)

#### HST 101. Western Civilization to 1700. (3 h)

Survey of ancient, medieval, and early modern history to 1700. Focus varies with instructor. (CD, D)

#### HST 102. Europe and the World in the Modern Era. (3 h)

Survey of modern Europe from 1700 to the present. Focus varies with instructor. (CD, D)

#### HST 103. World Civilizations to 1500. (3 h)

Survey of the ancient, classical and medieval civilizations of Eurasia with a brief look at American and sub-Saharan societies. Focus varies with instructor. (CD, D)

#### HST 104. World Civilizations since 1500. (3 h)

Survey of the major civilizations of the world in the modern and contemporary periods. Focus varies with instructor. (CD, D)

#### HST 105. Africa in World History. (3 h)

Examines the continent of Africa from prehistory to the present in global perspective, as experienced and understood by Africans themselves. (CD, D)

#### HST 106. Medieval World Civilizations. (3 h)

Provides an overview of world civilizations in the period generally understood as "medieval," from 600 C.E. to 1600 C.E. The course examines cultures and societies in East Asia, India, Africa, and the Americas as well as Europe and asks if there is such a thing as a "medieval" world history. What characteristics do these widely differing cultures and geographic areas share, and where do they differ? (CD, D)

#### HST 107. Middle East & the World. (3 h)

Examines, in its global context, the Middle East region from the inception of Islam in the 7th century to the 20th century. Combines an introduction to Islamic civilization in its central lands with a close study of its interaction with other societies. (CD, D)

#### HST 108. Americas and the World. (3 h)

Examines North, Central and South America in global perspectives from premodern times to the present with particular attention to political, economic, social, and cultural developments and interactions. (CD, D)

#### HST 109. Asia and the World. (3 h)

Overview of Asia (primarily East, Southeast, and South Asia) since 1500 with emphasis on economic, diplomatic, cultural, and religious interactions with the outside world. (CD, D)

**HST 110. Atlantic World since 1500. (3 h)**

Examines the major developments that have linked the civilizations bordering the Atlantic Ocean from 1500 to the present. Themes include exploration; commerce; European colonization and indigenous responses; disease; religious conversion and revivalism; mestizo and creole culture; imperial warfare; enlightenment; revolution; slavery and abolition; extractive economies; nationalism; 'scientific racism;' invented traditions; the black diaspora and negritude; decolonization; the Cold War; segregation and apartheid; dictatorship; neoliberalism; and globalization. (CD, D)

**HST 111. Ancient World Civilizations. (3 h)**

Explores ancient civilizations from the perspective that each civilization is a reflection of local circumstances and the distinctive worldview that shaped its institutions to become a complex, state-organized society. (CD, D)

**HST 112. Big History: A History of the Cosmos and Humanity's Place In It. (3 h)**

Beginning 13.7 billion years ago and drawing on the sciences, social sciences, and history, this course offers a contemporary understanding of how the physical, social, and mental worlds people inhabit came to be. Its effort to integrate disciplines that usually remain unconnected should appeal to those who want to see how the pieces of education fit together. (CD, D)

**HST 113. Health, Disease and Healing in World History. (3 h)**

Examines political, economic, and cultural responses to sickness and disease in global historical context, paying particular attention to the intersection of religion and healing, as well as race, class, and gender, in ancient, medieval, early modern, pre-colonial, colonial, and post-colonial societies. (D)

**HST 114. Gender and Sexuality in World History. (3 h)**

Introduces the global and historical breadth of gender and sexual systems. Foundational and current approaches to cross-cultural historical analysis of masculinity, women's rights, and differences between LGBTQ identities and other models. Also listed as WGS 214. (CD, D)

**HST 119. Venice and the World. (3 h)**

The history of Venice is intertwined with many of the central themes of world history. Students will examine the history of Venice from its foundation to the present day, examining the ongoing reciprocal interactions between the city-state, Europe, and the wider world. Offered in Venice only. (CD, D)

**HST 120. Formation of Europe: Habsburg Empire and its Successor States. (3 h)**

The development of Central and East-Central Europe as a multiethnic unity under the Habsburgs, 1526-1918, and its dissolution into successor states and subsequent interactions, 1918-1989. Offered in Vienna. (D)

**HST 150. United States History. (3 h)**

Survey of U.S. history from the colonial period to the present.

**HST 151. The Golden Age of Burgundy. (1.5 h)**

Burgundian society, culture, and government in the reigns of Philip the Bold, John the Fearless, Philip the Good, and Charles the Rash, 1384-1477. Offered in Dijon.

**HST 161. History Museums. (1.5 h)**

Introduces students to history museums and surveys the major issues involved in the collection and display of historical objects, discusses the impact of social history on museum interpretations, and traces the ethical issues and public controversies stemming from the treatment of historical topics in museum settings.

**HST 162. History of Wake Forest. (1.5 h)**

A survey of the history of Wake Forest from its beginning, including its written and oral traditions. May include a visit to the town of Wake Forest.

**HST 171. Historical Biography. (1.5 h)**

Study of biographies of men and women who have influenced specific histories and civilizations. May be repeated for credit if topic differs.

**HST 172. Historical Novels. (1.5 h)**

The role of the historical past in selected works of fiction. May be repeated for credit if topic varies.

**HST 173. Historical Films. (1.5 h)**

Examines the value of film as a source for understanding the past. Includes viewing and discussing historical films in relation to primary and secondary source texts. May be repeated for credit if topic varies.

**HST 206. The Early Middle Ages. (3 h)**

European history from the end of the ancient world to the mid-12th century, stressing social and cultural developments.

**HST 207. The High Middle Ages Through the Renaissance. (3 h)**

European history from the mid-12th through the early 16th centuries, stressing social and cultural developments.

**HST 209. Europe: From Renaissance to Revolution. (3 h)**

A survey of European history from the 15th to the 18th century. Topics include the voyages of discovery, the military revolution, the formation of the modern state, religious reformation, witchcraft and the rise of modern science, and pre-industrial economic and social structures including women and the family.

**HST 216. General History of Spain. (3 h)**

History of Spain from the pre-Roman period to the present day. Counts as elective for the Spanish major. Offered in Salamanca.

**HST 217. France to 1774. (3 h)**

The history of France from the Paleolithic period to the accession of Louis XVI with particular attention to the early modern period.

**HST 218. France since 1815. (3 h)**

The history of France from the restoration of the monarchy to the Fifth Republic.

**HST 219. Germany to 1871. (3 h)**

Social, economic, and political forces leading to the creation of a single German nation-state out of over 1,700 sovereign and semi-sovereign German states.

**HST 220. Germany: Unification to Unification 1871 to 1990. (3 h)**

The Germans' search for stability and unity in a society riven by conflict and on a continent riven by nationalism.

**HST 221. The British Empire to 1815. (3 h)**

Explores the early history of the British Empire and imperialism until the end of the Napoleonic Wars in 1815, including the Elizabethan conquest of Ireland, global trade and exploration, the foundations of the East India Company, captivity and slavery, and revolution in the Atlantic world, with an emphasis on the place of religion, gender, race, and class in imperial rule.

**HST 222. The British Empire from 1815. (3 h)**

Examines the British Empire and British approaches to imperialism from the end of the Napoleonic Wars in 1815 through to the Brexit crises of the late 2010s. The course considers both formal and informal British influence in Latin America, the Caribbean, Africa, the Middle East and Asia, analyzing the interconnected political, economic, and socio-cultural drivers and outcomes of imperialism, as well as the many anti-imperial movements that developed in response to British rule.

**HST 223. The British Isles to 1750. (3 h)**

Discusses religious reformations in the 16th century; political and scientific experiments in the 17th century; and the commercial revolutions of the 18th century. Examines their effect on the way Englishmen and women conceived of their state, their communities and themselves, exploring social relationships and the changing experience of authority. The course also considers England's relationship to its neighbors, Scotland and Ireland, and these British Isles within the context of early modern Europe.

**HST 224. Great Britain since 1750. (3 h)**

Addresses topics in British history from the Industrial Revolution to New Labour, with attention to how politics and citizenship were linked to imperial power. Explores industrialization, liberalism and their discontents; colonization, decolonization, and immigration; social and urban riot and reform; world war; and the creation of the welfare state and its dismantling. The course also considers Britain's relationship with Ireland and European integration.

**HST 225. History of Venice. (3 h)**

The history of Venice from its origin to the fall of the Venetian Republic. Offered in Venice.

**HST 226. History of London. (1.5-3 h)**

Topographical, social, economic, and political history of London from the earliest times. Lectures, student papers and reports, museum visits and lectures, and on-site inspections. Offered in London.

**HST 228. Georgian and Victorian Society Culture. (3 h)**

Social and economic transformation of England in the 18th and 19th centuries, with particular attention to the rise of professionalism and developments in the arts. Offered in London.

**HST 229. Venetian Society & Culture. (3 h)**

An examination of Venetian society, including the role within Venetian life of music, theatre, the church, and civic ritual. Offered in Venice.

**HST 230. Russia: Origins to 1865. (3 h)**

A survey of the political, social, and economic history of Russia, from its origins to the period of the Great Reforms under Alexander II. Students taking HST 230 cannot receive credit for HST 232/REE 200.

**HST 231. Russia and Soviet Union: 1865 to Present. (3 h)**

A survey of patterns of socio-economic change from the late imperial period to the present, the emergence of the revolutionary movement, and the development of Soviet rule from its establishment to its collapse. Students taking HST 231 cannot receive credit for HST 232/REE 200.

**HST 232. Introduction to Russian and East European Studies. (3 h)**

An interdisciplinary survey of Russia and the Soviet Union, including an examination of society, polity, economy, and culture over time. Also listed as REE 200. Students taking HST 232/REE 200 cannot receive credit for HST 230 or 231. (CD)

**HST 235. The History of European Jewry from the Middle Ages to the Present. (3 h)**

Examines the Jewish historical experience in Europe from the medieval period to the Holocaust and its aftermath. Includes a consideration of social, cultural, economic and political history, and places the particular experience of Jews within the context of changes occurring in Europe from the medieval to the modern period.

**HST 236. The Nazi Holocaust to 1941. (3 h)**

Explores the preconditions and causes of the Nazi Holocaust and situates the Holocaust within the history of European colonial genocide and the rise of totalitarian regimes. Traces the development and radicalism of Nazism within Germany and discusses Nazi efforts to forge a racially pure state from Hitler's ascension to power in 1933 until the invasion of the Soviet Union in 1941. Examines the various ways that Jews and other groups targeted by Nazis responded to the rise of Nazism.

**HST 237. The Nazi Holocaust from 1941. (3 h)**

Examines the systematic attempt to exterminate European Jewry and other groups targeted by Nazi Germany on account of their perceived racial inferiority. In particular examines the period from the 1941 German invasion of the Soviet Union through the end of the war, and discusses the ghettoization of European Jews, the various means of mass murder, and the aftermath of the Holocaust. This class includes an optional trip to the United States Holocaust Memorial Museum in Washington, DC.

**HST 239. Jewish History in the Americas. (3 h)**

Examines the rich history of American Jewry from the period of first settlement to the present. Jews have been present in the Americas since the period of Dutch conquest in the mid-seventeenth century. Over the subsequent three and a half centuries, what was once a distant outpost of the Jewish world has today become a major center, and is home to one of the most diverse, populous, successful, and complicated communities in Jewish history.

**HST 242. Middle East before 1500. (3 h)**

A survey of Middle Eastern history from the rise of Islam to the emergence of the last great Muslim unitary states. The course provides an overview of political history with more in-depth emphasis on the development of Islamic culture and society in the pre-modern era. (CD)

**HST 243. Middle East since 1500. (3 h)**

A survey of modern Middle Eastern history from the collapse of the last great Muslim unitary states to the present day. Topics include the rise and demise of the Ottoman and Safavid empires, socio-political reform, the impact of colonialism, Islamic reform, the development of nationalism, and contemporary social and economic challenges. (CD)

**HST 244. Pre-Modern China to 1850. (3 h)**

Study of traditional China to 1850, with an emphasis on the evolution of political, legal and social institutions and the development of Chinese religion, learning and the arts. (CD)

**HST 245. Modern China since 1850. (3 h)**

Study of modern China from 1850 to the present, focusing on the major political, economic, and cultural transformations occurring in China during this period within the context of modernization, imperialism and (semi) colonialism, world wars and civil wars, revolution and reform, and the ongoing processes of globalization. (CD)

**HST 246. Japan before 1600. (3 h)**

A survey of Japan from earliest times to the coming of Western imperialism, with emphasis on regional ecologies, economic institutions, cultural practice, military organization, political ideology, and foreign relations. (CD)

**HST 247. Japan since 1600. (3 h)**

A survey of Japan in the modern world. Topics include political and cultural revolution, state and empire-building, economic "miracles", social transformations, military conflicts, and intellectual dilemmas. (CD)

**HST 249. Intro to East Asia. (3 h)**

An introduction to the histories and cultures of East Asia, from the earliest times to the present, focusing on China, Korea, Japan, and Vietnam, with some attention to the rest of South-East Asia, and emphasizing ecology and economy, trade and international relations, political ideology, religious belief, and cultural practice. (CD)

**HST 250. Premodern South Asia. (3 h)**

A survey of ancient and medieval South Asia beginning with the Indus Valley civilization to the decline of the Mughal Empire. (CD)

**HST 251. Modern South Asia. (3 h)**

A survey of colonial and post-colonial South Asia beginning with the political conquest of the British East India Company in the mid-18th century until the present. (CD)

**HST 254. American West to 1848. (3 h)**

The first half of a two-semester survey course of the North American West, from roughly 1400 to 1850. Topics include indigenous trade and lifeways, contact, conflict, and cooperation between natives and newcomers, exploration and migration, imperial geopolitical rivalries, and various experiences with western landscapes.

**HST 255. U.S. West from 1848 to the Present. (3 h)**

The second half of a two-semester survey course of the U.S. West, from 1848 to the present. Topics include industrial expansion and urbanization, conflicts with Native Americans, national and ethnic identity formations, contests over natural resources, representations and myths of the West, and religious, cultural, and social diversity.

**HST 256. The U.S and the World, 1763-1914. (3 h)**

The first half of a two-semester survey on U.S. foreign relations. Major topics explore the economic, political, cultural, and social currents linking the U.S. to Europe, Africa, South America, and Asia between 1763 and 1914. Particular attention is given to the influence of the world system—ranging from empire, war, and migration to industrial competition and economic interdependence—on U.S. diplomacy, commerce, and domestic politics and culture.

**HST 257. The U.S and the World since 1914. (3 h)**

The second half of a two-semester survey of U.S. foreign relations. Major topics explore the economic, political, cultural and social currents linking the U.S. to Europe, Africa, Latin America, the Middle East and Asia between since 1914. Particular attention is given to the influence of the international system—ranging from hot and cold wars, to decolonization, economic interdependence and transnational businesses and institutions—on U.S. diplomacy, commerce, and domestic politics and culture.

**HST 258. Colonial America. (3 h)**

Surveys and explores the encounters between natives and newcomers in North America between 1492 and 1763. Topics include development of new communities and cultures, as well as the roles warfare, trade, race, religion, and slavery played in the creation of "new worlds for all."

**HST 259. Revolutionary America. (3 h)**

Examines the transformation that unfolded during the struggles for sovereignty in North America between 1760 and 1800. Considers the political upheavals that converted some British colonists into insurgents and explores the unlikely unification of disparate provinces into a confederated republic.

**HST 262. Antebellum America. (3 h)**

Examines the sociocultural, economic, religious, and political transformations of American society from the period after the Revolutionary War through the onset of the American Civil War.

**HST 263. The U.S. Civil War and Reconstruction. (3 h)**

The political, social, and military events of the war and the economic, social, and political readjustments which followed.

**HST 264. U.S. History 1877-1933: Industrialization, Urbanization, and Conflict. (3 h)**

Political, social, and economic developments in the U.S. from 1877 to 1933 with emphasis on industrialization, urbanization, immigration, growth of Big Business, imperialism, Progressive reform, war, depression, and race, class, and gender conflicts.

**HST 265. US History since the New Deal. (3 h)**

Political, social, and economic history of the U.S. since 1933 with emphasis on the Depression, wars at home and abroad, unionism, civil rights movements, countercultures, environmentalism, religion, the Imperial Presidency, and liberalism and conservatism.

**HST 266. The History of the Slave South. (3 h)**

Examines slavery and southern distinctiveness, from the first interactions of Europeans, Native Americans and Africans through the Civil War and Emancipation. (CD)

**HST 267. The Making of the Modern South since the Civil War. (3 h)**

Traces the history of race relations and southern culture, politics, and economics from sharecropping and segregation through political reform, the Civil Rights Movement, and the Republican New South. (CD)

**HST 268. African History to 1870. (3 h)**

Overview of African history prior to the establishment of European colonial rule, covering the period from the 4th century until 1870. Focuses on sub-Saharan Africa and uses case studies in various regions. (CD)

**HST 269. African History since 1850. (3 h)**

Overview of African history, beginning with the period following the abolition of the Trans Atlantic Slave Trade and ending with contemporary challenges of independent African nations. Emphasizes sub-Saharan African perspectives, initiatives, and historical agency. (CD)

**HST 271. African American History to 1870. (3 h)**

Examines the experiences of African-descended people from Africa to America and from slavery to freedom, with each experience - the slave trade, enslavement, and emancipation - marking a fundamental transformation in black lives. (CD)

**HST 272. African American History since 1870. (3 h)**

Examines the experiences of African-descended people from the destruction of slavery to Reconstruction, from rural to urban, and from Jim Crow to Civil Rights, with each experience - emancipation, migration, and enfranchisement - marking a fundamental transformation in black lives. (CD)

**HST 275. Modern Latin America. (3 h)**

Survey of Latin-American history since independence, concentrating on the 20th century. Emphasizes race, gender, revolution, populism, dictatorship, resistance movements, and U.S-Latin American relations. Examines cultural artifacts from multiple genres. (CD)

**HST 284. Latin America's Colonial Past. (3 h)**

Studies the history of Latin America's colonial past from the precolonial era to the wars of independence in the early 19th century. Topics include: Conquest controversies; autonomy, adaptation, and resistance in indigenous and African communities; sexuality and the Inquisition; and evolving systems of race, caste, and gender. (CD)

**HST 300. History Fin de Siecle Vienna. (3 h)**

Examination of major developments in Viennese culture, politics and society from the 1880s to 1918. Important figures to be discussed may include Mahler, Schoenberg, Klimt, Schiele, Kokoshchka, Schnitzler, Musil, Kafka, Freud and Herzl. Offered only in Vienna.

**HST 304. Travel, History and Landscape in the Mediterranean. (3 h)**

This course considers broader debates about the nature of "Mediterranean" societies in the late medieval and early modern period through case studies of particular places. Topics include cross-cultural cooperation and conflict, travel and travel narratives, the creation of national identities through public history, and contests over development and/or conservation of natural and cultural resources. Offered only in the Mediterranean.

**HST 305. Medieval & Early Modern Iberia. (3 h)**

Examines the variety of Christian, Muslim, and Jewish cultures that flourished on the Iberian peninsula between the years 700 and 1700. Themes include religious diversity and the imposition of orthodoxy, the formation of nation-states and empires, geographic exploration and discovery, and the economics of empire in the early modern period. (CD)

**HST 306. Science, Magic, and Alchemy in Europe, 1400-1700. (3 h)**

Examines scientists and magicians in medieval Europe, who developed theoretical models and practical approaches to understand and to manipulate the natural world. Looks at alchemists, who transformed matter to understand it as well as to make things for practical purposes: metals, gems, medicines, and the philosopher's stone.

**HST 307. Italian Renaissance. (3 h)**

Examination of the economic, political, intellectual, artistic, and social developments in the Italian world from 1350 to 1550. (CD)

**HST 308. World of Alexander the Great. (3 h)**

An examination of Alexander the Great's conquests and the fusion of Greek culture with those of the Near East, Central Asia, and India. Special emphasis placed on the creation of new political institutions and social customs, modes of addressing philosophical and religious issues, as well as the achievements and limitations of Hellenistic Civilization.

**HST 309. European International Relations since World War I. (3 h)**

Surveys European International Relations in the 20th century beyond treaties and alliances to the economic, social, and demographic factors that shaped formal arrangements between states. Covers the impact of new forms of international cooperation, pooled sovereignty, and non-governmental organizations on European diplomacy and internal relations.

**HST 310. 20th Century Eastern Europe. (3 h)**

Examination of the history of 20th century Eastern Europe, including the creation of nation-states, World War II, and the nature of Communist regimes established in the postwar period. Course includes a discussion of the collapse of the Eastern Bloc and the challenges of European integration.

**HST 311. Special Topics in History. (1-3 h)**

Subject varies with instructor.

**HST 311A. Special Topics: American. (1-3 h)**

Subject varies with instructor.

**HST 311E. Special Topics: European. (1-3 h)**

Subject varies with instructor.

**HST 311G. Special Topics: General. (1-3 h)**

Subject varies with instructor.

**HST 311W. Special Topics: Wider World. (1-3 h)**

Topic varies with instructor.

**HST 312. Jews, Greeks and Romans. (3 h)**

Largely from a Jewish context, the course explores the political, religious, social and philosophical values shaped by the collision between Jews, Greeks, and Romans, from the Hellenistic Period to the Middle Ages.

**HST 315. Greek History. (3 h)**

The development of ancient Greek civilization from the Bronze Age to the end of the Classical Period stressing social institutions, individual character, and freedom of social choice within the framework of cultural, political, and intellectual history.

**HST 316. Rome: Republic and Empire. (3 h)**

A survey of Roman history and civilization from its beginning to about 500 C.E., with emphasis on the conquest of the Mediterranean world, the evolution of the Republican state, the growth of autocracy, the administration of the empire, and the interaction between Romans and non-Romans.

**HST 317. The French Revolution and Napoleonic Empire. (3 h)**

The revolution and wars that constitute one of the pivotal points in modern history.

**HST 318. Weimar Germany. (3 h)**

Art, literature, music, and film of Weimar Germany, 1919-1933, in historical context. German or history credit determined at registration. Also listed as GES 331.

**HST 320. Write and Record! Diaries and Memoirs of the Nazi Holocaust. (3 h)**

Examines a wide range of diaries and memoirs to illuminate the historical period of Nazism, seeking to understand daily life under Nazi rule, the brutality of the perpetrators, and the many responses of Jews forced to live in such circumstances. From Anne Frank's account of hiding in an Amsterdam secret annex to Art Spiegelman's graphic novel of his parent's experience in Auschwitz, the diaries and memoirs of Holocaust victims provide an invaluable resource for historians.

**HST 321. Zionism, Palestine, and Israel in Historical Perspective. (3 h)**

Investigates both the European causes of Zionism and the Middle Eastern consequences of the establishment of the State of Israel. Through our discussion, students will be introduced to many of the scholarly debates over the history, practices, and consequences of Zionism, the State of Israel, and the Israel-Palestinian conflict.

**HST 322. Migrants and Refugees in Modern History. (3 h)**

Explores forced migrations and the development of the concept of refuge from the 16th to 20th centuries, drawing on cases from around the world. Considers how states, empires, and non-governmental organizations have handled migrants and refugees, as well as the lived experiences of displaced individuals.

**HST 324. Fashion in the Eighteenth Century. (3 h)**

Examines the relationship between consumer culture and democratic politics in the eighteenth-century, focusing on Britain, North America, France, and Haiti. Considers laws regulating dress; the relationship between democracy, political resistance, and costume; the construction of political allegiance through clothes and symbols; and the ways fashion mediated ideas about empire, race, and gender.

**HST 325. English Kings, Queens, and Spectacle. (3 h)**

Examines how English royal authority was created, legitimized, performed, and challenged, between the reigns of Henry VIII and George III through ritual, image, and text. Topics include: gender and power; court culture; the press and political revolution; popular politics and propaganda; graphic satire; and the commercialization of politics.



**HST 326. The Industrial Revolution in England. (3 h)**

A study of the social, economic, and political causes and effects of the Industrial Revolution in England. Offered in London.

**HST 327. Profit and Power in Britain. (3 h)**

Examines economic ideas and British society between 1688 and 1914. Topics include connections between consumption and identity; the relationship of morals to markets; the role of gender and the household; knowledge, technology, and the industrial revolution; and the place of free trade in the political imagination.

**HST 328. History of the English Common Law. (3 h)**

A study of the origins and development of the English common law and its legacy to modern legal processes and principles.

**HST 331. The United States in Age of Empire, 1877 - 1919. (3 h)**

Explores the late 19th and early 20th centuries when the United States joined in the global scramble for empire. Examines the domestic and international causes of American imperial expansion; the modes of rule that the U.S. exercised in its formal and informal possessions; and the political and intellectual debates at home and abroad about America's expansion as a world power.

**HST 332. The United States and the Global Cold War. (3 h)**

Considers United States efforts to secure its perceived interests through "nation building" and economic development in Africa, Latin America, the Middle East, and much of Asia during the Cold War and after. Emphasizes the ideological and cultural dimensions of American intervention.

**HST 333. European Diplomacy 1848-1914. (3 h)**

The diplomacy of the great powers, with some attention given to the role of publicity in international affairs. Topics include the unification of Italy and of Germany, the Bismarckian system, and the coming of World War I.

**HST 334. Mystics, Monarchs, and Masses in South Asian Islam. (3 h)**

An introduction to Islam through South Asian social, political, cultural, and intellectual history. (CD)

**HST 335. Hindus and Muslims in India, Pakistan, and Beyond. (3 h)**

Examines the shared yet different, intertwined yet separate histories of the Hindus and Muslims of modern India, Pakistan, Bangladesh, and Sri Lanka primarily over the last two centuries. Explores the checkered existence of the two communities in order to understand diversity and questions of coexistence and conflict. (CD)

**HST 336. Gender and Power in African History. (3 h)**

Examines the close relationship between understandings of gender and power in African societies with particular focus on the last several hundred years. After addressing the sources and methods scholars have used to address these topics, the course examines conceptions of gender and power in pre-colonial African societies, the impact of the colonial period on men and women, the gendered nature of nationalism and independence, and the importance of gender and power to many of Africa's post-colonial challenges. (CD)

**HST 337. Women and Gender in Early America. (3 h)**

History of women and gender roles from 1600 through the Civil War, including the social constructions of femininity and masculinity and their political, economic, and cultural significance. (CD)

**HST 338. Sexuality, Race and Class in the United States since 1850. (3 h)**

History of gender relations from the mid-nineteenth century to the present. Analyzes the varying definitions of femininity and masculinity, the changing notions of sexuality, and the continuity and diversity of gender roles with special attention to race, class, and ethnicity.

**HST 339. Sickness and Health in American History. (3 h)**

Analysis of major trends in health, sickness, and disease within the broad context of social, political, and economic developments. Examines indigenous healing; colonial medicine; emergence of hospitals and asylums; public health; medical ethics; race, class and gender issues; and natural versus high-tech approaches to health care in the 20th century.

**HST 340. Urban Africa. (3 h)**

Examines how urban residents have worked to creatively shape some of sub-Saharan Africa's major transformations. Major topics include the social and cultural fabric of pre-colonial African cities, the impact of colonialism on African towns, cities as sites of revolution and independence, and the contemporary conditions and challenges facing urban residents. While popular imagination suggests that the African past is largely a rural one, many of the continents' most explosive social and cultural transformations have taken place in its cities. (CD)

**HST 341. Africans in the Atlantic World, 1750-1815. (3 h)**

Explores Africans' experience in the Atlantic world (Africa, Europe and the Americas) during the era of the slave trade by examining their encounters with Indians and Europeans and their adjustment to slave traders in West Africa. Also listed as AES 341. (CD)

**HST 343. The Silk Roads. (3 h)**

Explores the global exchanges across land and sea from the Bronze Age to the Early Modern Era, and their impact on the states and stateless societies connected by the Silk Road from China and Japan to the Mediterranean and the British Isles. (CD)

**HST 344. Early Modernity in China. (3 h)**

This course explores historic transformations in Chinese economy, society, thought, and culture from 1500 to 1800. These developments are placed within their local, global, and comparative context. Students read a wide variety of Chinese primary sources in English translation, including philosophical treatises, literary works, letters, diaries, and memoirs, some of which were written by Jesuit missionaries from Catholic Europe. (CD)

**HST 347. The Rise of Asian Economic Power since WWII. (3 h)**

An exploration of how Japan, South Korea, and China became dominant in world economies. Focus on business practices, foreign trade, government policy, and consumer and labor markets in the process of high-speed economic growth. Concludes with examination of recent challenges of national debt, increasing international competition, and aging societies. (CD)

**HST 348. Samurai and Geisha: Fact, Film, and Fiction. (3 h)**

Focuses on two well-known groups in Japanese history, the samurai (warriors) and geisha (entertainers). By analyzing historical studies and primary sources, as well as works of fiction and films about samurai and geisha, the course considers how Japanese and Western historians, novelists, and filmmakers have portrayed the two groups and by implication Japan and its history in the modern period. (CD)

**HST 349. American Foundations. (3 h)**

An interdisciplinary study of American art, music, literature, and social history with particular reference to the art collection at Reynolda House, Museum of American Art. Lectures, discussions, and field trips, including a tour of New York City museums. Term project in American history. Also listed as Art 331, Interdisciplinary Honors 393, 394, and Music 307. Offered at Reynolda House in summer only.

**HST 350. World Economic History: Globalization, Wealth and Poverty, 1500-Present. (3 h)**

Explores the growth of globalization and its role in the creation of wealth and poverty in both developed and underdeveloped nations. Focus on trade, industrialization, and agricultural and technological advances in global contexts. (CD)

**HST 352. Ten Years of Madness: The Chinese Cultural Revolution, 1966 to 1976. (3 h)**

A history of the Chinese Cultural Revolution from 1966 to 1976. Examines the origins, consequences, and collective memories of the catastrophic political events and the social and cultural transformations that took place in China during the last decade of Mao's leadership. (CD)

**HST 353. War and Society in Early America. (3 h)**

Examines the evolution of warfare among the indigenous and colonial societies of North America between 1500 and 1800 and considers the roles of economics, class, gender, race, religion, and ideology in cultures of violence.

**HST 354. The Early American Republic. (3 h)**

A history of the formative generation of the United States. Considers the dramatic transformations of the constitutional, economic, and racial orders, as well as new performances in politics, national identity, gender, and culture.

**HST 356. Jacksonian America 1815-1850. (3 h)**

The United States in the age of Jackson, Clay, Calhoun, and Webster.

**HST 358. Race, Gender and the Courts. (3 h)**

Examines the impact of state and federal court cases upon the evolution of race and gender relations in the U.S. from 1789 to the present. Each case is placed within the political, economic and social historical context for the given time periods. Race includes Native Americans, African Americans, Asian Americans, and Latino Americans. This class will analyze government intervention, inaction, and creative interpretation. (CD)

**HST 359. Prostitutes, Machos, and Travestis: Sex and Gender in Latin American History. (3 h)**

Explores gender and sexuality across 20th century Latin America and the Caribbean. Applies new theoretical developments in gender, masculinity, and LGBT studies to the region's history of race, revolution, labor, dictatorship, and social movements. Cases include the Mexican, Cuban, and Nicaraguan Revolutions and the Dominican and Argentine dictatorships. (CD)

**HST 362. American Constitutional History. (3 h)**

Origins of the Constitution, the controversies involving the nature of the Union, and constitutional readjustments to meet the new American industrialism.

**HST 365. Modern Native American History. (3 h)**

Considers broad historical issues and debates about Native American identity, experiences with and memories of colonialism, cultural preservation and dynamism, and political sovereignty from 1830 to the present. Focuses on individual accounts, tribal case studies, and popular representations of Native people. (CD)

**HST 366. Historic Preservation and Conservation. (3 h)**

Explores the history of the preservation and conservation movements organized to save historic buildings and landscapes in the U.S. and other nations. Examines the laws, international charters, national, statewide, and local agencies, practices, collaborations, and emerging challenges of historic preservation and conservation.

**HST 367. Public History. (3 h)**

Introduces students to the major issues involved in the practice, interpretation, and display of history for nonacademic audiences in public settings. Central themes include controversial historical interpretations, the role of history in popular culture, issues and aims in exhibiting history, and the politics of historical memory. Explores some of the many ways people create, convey, and contest history, major themes in community and local history, and the problems and possibilities of working as historians in public settings.

**HST 368. U.S. Environmental History. (3 h)**

Focuses on human actors and actions while highlighting how the material, or natural, world impacted Americans and shaped the nation. Students will investigate U.S. politics, society, and culture through the lens of the environment while exploring how Americans defined, represented, and used their natural environment over time.

**HST 369. Modern Military History. (3 h)**

Making war in the modern era, with special attention to the social context of military activity. Counts toward the American distribution for majors. Credit not allowed for both HST 369 and MIL 229.

**HST 370. Topics in North Carolina History. (3 h)**

A general chronological survey of North Carolina with emphasis on selected topics. May be repeated for credit if topic varies.

**HST 371. Transgender History, Identity, and Politics in the U.S. (3 h)**

This course explores the experiences of and responses to transgender, gender non-conforming, and intersex (TGI) people in nineteenth-and twentieth-century America. We will examine how scientific/medical authorities, legal authorities, and everyday people have understood and responded to various kinds of gender non-conformity. Same as WGS 305. (CD)

**HST 372. Queer Public Histories. (3 h)**

Explores how public history projects (oral histories, museums, archives, documentaries) document gay, lesbian, and queer communities in the U.S. Discusses how historical and contemporary LGBTQ stories have been collected and examines the various queer identities that emerge through this process. Same as WGS 306.

**HST 373. Anglo-American Relations since 1940. (3 h)**

A study of the relations between the United States and Britain from 1940 to the present. Offered in London.

**HST 374. Protest and Rebellion in Latin America. (3 h)**

A study of the history of protest movements and rebellions in Latin America from primitive and agrarian revolts to mass working class and socialist organizations. (CD)

**HST 375. Black Lives. (3 h)**

Explores both the lived experience and the historical reality of African Americans. Black lives are profoundly shaped by their group experience, influenced in no small part by the role of racism. The biographical approach individuates historical figures struggling to fashion identity. Topics include character development, intimacy, gender roles, public and private personas, self-deceptions or defenses, and personal perceptions of biases. The craft of writing biography is taught throughout the semester. (CD)

**HST 376. Civil Rights and Black Consciousness Movements. (3 h)**

A social and religious history of the African-American struggle for citizenship rights and freedom from World War II to the present. (CD)

**HST 378. Race, Memory, and Identity. (3 h)**

Explores the collective memory and identity of American-Indian and African-American communities and their response to historical trauma in their cultural imagination, spirituality, and political and social activism. Also listed as REL 348. (CD)

**HST 380. America at Work. (3 h)**

Examines the American entrepreneurial spirit within the broader context of industrial, social, and economic change from the colonial period to the present and explores the social and cultural meanings attached to work and workers, owners and innovators, businesses and technologies, management and leadership. Also listed as ENT 380. (CD)

**HST 381. Religious Utopias and the American Experience. (3 h)**

Religious groups of many different origins have found in North America an open space for creating settlements that would embody their ideals. This course surveys a range of such 18th- and 19th-century utopian communities, including Moravians, Rappites, Shakers, and the Oneida and Amana colonies. Also listed as REL 346.

**HST 382. Religion in the Development of Higher Education. (3 h)**

Examines the role of religious groups in the founding of American colleges and universities and explores how their role has changed across history up through contemporary trends and issues. Major themes include the heritage of religion in European higher education; institutions of higher education founded by specific American religious groups; religion in the liberal arts curriculum; religious activities in student life; the relationship of colleges and universities with religious sponsors and constituents, focusing on controversies such as science and religion; the impact of universities on liberal arts colleges; and the trends toward growth and "secularization" in the last 50 years.

**HST 384. Global Outlaws History since 1500. (3 h)**

Examines the motivations, ideologies, goals, and behavior of those who have been deemed "outlaws" to international society since 1500, including pirates, terrorists, smugglers, war criminals, and violators of copyright. Analyzes the role of power in creating the global regimes that define and target such activities.

**HST 385. History through Film: Bollywood and the Making of Modern India. (3 h)**

Juxtaposes historical films made by the world's largest film industry base out of Bombay/Mumbai with textual primary sources and secondary historical works and seeks to understand films as both interpretations and sources of history. Explores specific themes such as nation, gender, caste, and community that are critical to understanding modern Indian and South Asian history and culture. (CD)

**HST 387. The Last Great Muslim Empires. (3 h)**

Examines, in a comparative way, central themes in the history of the Ottoman, Mughal, and Safavid Empires in the early modern period (1400-1800). Considers the ways in which Muslim rulers fostered political legitimacy, ruled over non-Muslim and heterodox subject populations, and recruited persons of diverse religious and ethnic background into state service. (CD)

**HST 388. Nation, Faith, and Gender in the Middle East. (3 h)**

Traces the development of nationalism and its interaction with religious, transnational, and gender identities in the Middle East in the 19th and 20th centuries. Topics include Zionism, Abramism, Turkish nationalism, and Islamic revivalism. (CD)

**HST 389. The British Empire in the Middle East. (3 h)**

Covering the period from the late 18th to late 20th centuries, this course considers British involvement in the Middle East, exploring the political, economic, social and cultural facets of imperial power, decolonization and post-colonial international relations. (CD)

**HST 390. Research Seminar. (4 h)**

Offered by members of the faculty on topics of their choice. A paper is required.

**HST 391. Making History. (3 h)**

Seminar explores how historians make history through analysis, synthesis, and interpretation. Open to all students. All honors students must take HST 391.

**HST 392. Individual Research. (4 h)**

Writing of a major research paper. May be taken in lieu of HST 390. P-POI.

**HST 395. Internship in History. (1-3 h)**

Internship in the community that involves both hands-on experience and academic study. Juniors and seniors only. P-POI.

**HST 397. Historical Writing Tutorial. (1.5 h)**

Individual supervision of historical writing to improve a project initiated in HST 390 or HST 392. Does not count toward major or minor requirements. P-POI.

**HST 398. Individual Study. (1-3 h)**

Project for a qualified student in an area of study not otherwise available in the department; subject to approval. Work must be equivalent to an upper-level course.

**HST 399. Directed Reading. (1-3 h)**

Concentrated reading in an area of study not otherwise available. P-POI.

## Faculty

**Chair and Professor** Monique E. O'Connell

**President and Professor** Nathan O. Hatch

**Presidential Endowed Chair in Southern History, Professor, Dean of the College** Michele K. Gillespie

**Professors** Simone M. Caron, Michael L. Hughes, Jeffrey D. Lerner, Anthony S. Parent Jr.

**The Michael H. and Deborah Rubin Presidential Chair of Jewish History and Associate Professor** Barry Trachtenberg

**Associate Professors** Lisa M. Blee, Benjamin A. Coates, Robert I. Hellyer, Stephanie Koscak, Nathan A. Plageman, M. Raisur Rahman, John A.

Ruddiman, Susan Z. Rupp, Penelope J. Sinanoglou, Charles L. Wilkins, Mir Yarfitz, Qiong Zhang

**Assistant Professors** Alisha Hines

**University Professor and Associate Dean for Continuing Studies** Thomas E. Frank

**Visiting Professor** Charles Thomas

**Visiting Assistant Professors** Navid Farnia, Luca Provenzano, Derek Holmgren

## History, B.A.

### Requirements

Consists of a minimum of 31 hours and must include:

Code	Title	Hours
HST 390	Research Seminar	4
or HST 392	Individual Research	
Select three hours in pre-modern history.		3

HST 206	The Early Middle Ages
HST 207	The High Middle Ages Through the Renaissance
HST 209	Europe: From Renaissance to Revolution
HST 217	France to 1774
HST 219	Germany to 1871
HST 223	The British Isles to 1750
HST 230	Russia: Origins to 1865
HST 242	Middle East before 1500
HST 244	Pre-Modern China to 1850
HST 246	Japan before 1600
HST 250	Premodern South Asia
HST 254	American West to 1848
HST 258	Colonial America
HST 268	African History to 1870
HST 284	Latin America's Colonial Past
HST 304	Travel, History and Landscape in the Mediterranean
HST 305	Medieval & Early Modern Iberia
HST 307	Italian Renaissance
HST 308	World of Alexander the Great
HST 312	Jews, Greeks and Romans
HST 315	Greek History
HST 316	Rome: Republic and Empire
HST 324	Fashion in the Eighteenth Century
HST 325	English Kings, Queens, and Spectacle
HST 328	History of the English Common Law
HST 341	Africans in the Atlantic World, 1750-1815
HST 344	Early Modernity in China
HST 353	War and Society in Early America
HST 387	The Last Great Muslim Empires

Select three hours in each of the following three fields: 9

U.S. History

European History

African, Asian, Latin American, or Middle Eastern History

History courses HST 101, HST 102, HST 103, HST 104, HST 105, HST 106, HST 107, HST 108, HST 109, HST 110, HST 111, HST 112, HST 113, HST 114, HST 120, as well as those numbered 390 and above count toward the major but cannot be used to meet the distributional or pre-modern requirements.

Majors may count only two courses numbered 100-150 toward the required 31 hours.

Majors may include within the required 31 hours up to six hours of advanced placement or comparable work and up to six hours of any combination of HST 395, HST 398, and HST 399, other than the hours earned in HST 397. The student must take at least 15 hours of class work in history at Wake Forest University and have a GPA of 2.0 in history to graduate with the major.

Courses taken pass/fail do not meet the requirements for the major or minor.

Students who are history majors or minors may elect to complete a thematic concentration as part of their program of study. Concentrations

require 9 hours of coursework, but do not require any additional hours beyond those needed for the major or minor. Students declaring a concentration must do so prior to the beginning of their final semester. Concentrations are offered in the following specializations:

1. Cultural/Intellectual History
2. Economics, Trade, and Commerce
3. Gender/Sexuality/LGBTQ
4. Global/Transnational History
5. International Relations and Military
6. Jewish History
7. Politics, Governance, and Law
8. Religion and Society
9. Science, Medicine & Technology
10. Social History
11. Individualized Concentration

To complete a concentration, students must select courses in consultation with their major or minor adviser, submit an application to the department, and earn a 'C' in each course. Students who complete the requirements for a concentration will be awarded a certificate by the department and have the concentration included on their college transcript.

## Honors

Highly qualified majors should apply for admission to the honors program in history. To be graduated with the designation "Honors in History," the student must complete HST 391, present an honors-quality research paper, successfully defend the paper in an oral examination, and earn an overall grade point average of 3.3 with an average of 3.5 on work in history. For additional information, students should consult members of the department.

## History, Minor

### Requirements

Requires 18 hours. Minors may count only two courses numbered 100-150 toward the required 18 hours and must take at least 9 hours of course work in history at Wake Forest University.

Courses taken pass/fail do not meet the requirements for the major or minor.

Students who are history majors or minors may elect to complete a thematic concentration as part of their program of study. Concentrations require 9 hours of coursework, but do not require any additional hours beyond those needed for the major or minor. Students declaring a concentration must do so prior to the beginning of their final semester. Concentrations are offered in the following specializations:

1. Cultural/Intellectual History
2. Economics, Trade, and Commerce
3. Gender/Sexuality/LGBTQ
4. Global/Transnational History
5. International Relations and Military
6. Jewish History
7. Politics, Governance, and Law
8. Religion and Society

9. Science, Medicine & Technology
10. Social History
11. Individualized Concentration

To complete a concentration, students must select courses in consultation with their major or minor adviser, submit an application to the department, and earn a 'C' in each course. Students who complete the requirements for a concentration will be awarded a certificate by the department and have the concentration included on their college transcript.

## Interdisciplinary Honors (HON)

A series of seminar courses of an interdisciplinary nature is open to qualified undergraduates. Most of these seminars are team-taught by faculty representing diverse academic disciplines. Students interested in admission to any one of these seminars should consult the coordinator.

### Courses

## Interdisciplinary Honors (HON)

### HON 131. Approaches to Human Experience I. (3 h)

An inquiry into the nature and interrelationships of several approaches to man's experience, represented by the work of three such minds as Leonardo da Vinci, Dante, Klee, Lorenz, Confucius, Dostoevsky, Descartes, Goya, Mozart, Jefferson, and Bohr. Seminar discussion based on primary and secondary sources, including musical works and paintings. Written reports and a term paper required. Offered in alternate years.

### HON 132. Approaches to Human Experience II. (3 h)

An inquiry into the nature and interrelationships of several approaches to man's experience, represented by the work of three such minds as Leonardo da Vinci, Dante, Klee, Lorenz, Confucius, Dostoevsky, Descartes, Goya, Mozart, Jefferson, and Bohr. Seminar discussion based on primary and secondary sources, including musical works and paintings. Written reports and a term paper required. Offered in alternate years.

### HON 133. Approaches to Human Experience II. (3 h)

A parallel course to HON 131 and 132, concentrating on the work of a different set of figures such as Einstein, Galileo, Keynes, Pascal, Camus, Picasso, Ibsen, Stravinsky, Sophocles, and Bach. Offered in alternate years.

### HON 134. Approaches to Human Experience II. (3 h)

A parallel course to HON 131 and 132, concentrating on the work of a different set of figures such as Einstein, Galileo, Keynes, Pascal, Camus, Picasso, Ibsen, Stravinsky, Sophocles, and Bach. Offered in alternate years.

### HON 236. The Force of Impressionism. (3 h)

Impressionism and its impact on modern painting and literature, with attention to origins and theories of style. Painters to include Manet, Monet, Renoir, Degas, and Cezanne. Writers to include Baudelaire, Flaubert, Mallarme, James, Pound, Joyce, and Woolf.

### HON 237. The Scientific Outlook. (3 h)

An exploration of the origins and development of the scientific method and some of its contemporary applications in the natural and social sciences and the humanities.

### HON 238. Romanticism. (3 h)

Romanticism as a recurrent characteristic of mind and art and as a specific historical movement in Europe and America in the late eighteenth and nineteenth centuries. Emphasis on primary materials in philosophy, literature, music, and painting.

### HON 240. Adventures in Self-Understanding. (3 h)

Examination and discussion of significant accounts of the quest for understanding of the self, in differing historical periods, cultural contexts, and genres. Among figures who may be discussed are Augustine, Dante, Gandhi, Montaigne, Descartes, Pascal, and selected modern writers.

### HON 241. The Tragic View. (3 h)

The theory of tragedy in ancient and modern times; the expression of the tragic in literature, art, music, theatre, and film.

### HON 242. The Comic View. (3 h)

The theory of comedy in ancient and modern times; the expression of the comic in literature, art, music, theatre, and film.

### HON 247. The Mythic View. (3 h)

The nature of myth through creation and hero myths; the uses to which myths have been put in different historical periods; various modern explanations of myth (literary, religious, anthropological, psychoanalytic, social, and historical).

### HON 248. The Ironic View. (3 h)

An investigation of the ironic view of life in literature, art, history, theater, and film.

### HON 257. Images of Aging in Humanities. (3 h)

Multidisciplinary presentation and discussion of portrayals of aging in selected materials from several of the liberal arts: philosophical and religious perspectives; selections from literature and the visual arts; historical development of perceptions of aging; imaging of aging in contemporary culture.

### HON 258. Venice in Art and Literature. (3 h)

An exploration of what Venice has meant to nonnative artists and writers, and what they have made of it. Artists and writers include Byron, Turner, Ruskin, Henry James, Sargent, Whistler, Proust, Mann, and others.

### HON 265. Humanity and Nature. (3 h)

A multidisciplinary exploration of relations of human beings to nature, and of scientific, economic, and political factors in current environmental concerns. Selected religious, classical, and philosophical texts; works of visual art; selected discussions of ecology and human responsibility. Also listed as HMN 365.

### HON 281. Directed Study. (3 h)

Readings on an interdisciplinary topic approved by the Committee on Honors; presentation of a major research or interpretive paper based on these readings, under the direction of a faculty member; an oral examination on the topic, administered by the faculty supervisor and the Committee on Honors. Eligible students who wish to take this course must submit a written request to the Committee on Honors by the end of the junior year. Not open to candidates for departmental honors.

### HON 285. Performance Art and Theory. (3 h)

Introduction to the theory of performance art and its practice, with attention to its interdisciplinary underpinnings in art, music, dance, and theatre. Student performances required.

### HON 310. The Medieval World: Special Topics. (3 h)

A team-taught interdisciplinary course spanning the Middle Ages (500-1500) which considers artistic and/or literary representations and texts in the context of political, historical, or religious culture of the medieval period in Western and non-Western areas of the world. The specific content is determined by the individual instructors.

**HON 365. Literature, Song, and Folklore in Scotland, Ireland, and Appalachia. (3 h)**

A study of the diaspora of Scottish and Irish literature, song, and folklore to the Appalachian region of the United States from the 17th Century to the Present.

**HON 390. Postmodern Thought and Expression. (3 h)**

An exploration of postmodern philosophy, literature, and art, beginning with Nietzsche, Foucault, and Derrida, and extending into experiments in literature and art of the late twentieth and early twenty-first centuries.

**HON 393. American Foundations I. (3 h)**

Interdisciplinary study of American art, music, literature, and social history with particular reference to the art collection at Reynolda House Museum of American Art. Lecture and discussion. Also listed as ART 331, HST 349, and MUS 307. Offered at Reynolda House in summer only. English majors may receive credit for ENG 302. Major credit in any department dependent upon staffing by that department.

**HON 394. American Foundations II. (3 h)**

Interdisciplinary study of American art, music, literature, and social history with particular reference to the art collection and/or exhibitions at Reynolda House Museum of American Art. Lecture and discussion. Also listed as ART 331, HST 349, and MUS 307. English majors may receive credit for ENG 302. Major credit in any department dependent upon staffing by that department.

## Faculty

Coordinator, Professor of English Barry Maine

## Interdisciplinary Humanities (HMN)

Interdisciplinary Minor

The minor in Interdisciplinary Humanities explores the enduring centrality of humanity in artistic, literary, and intellectual manifestations from diverse geographical and historical contexts. Courses focus on the intellectual roots of both Western and non-Western civilizations, the emergence of philosophical concepts, and the development of social values and beliefs across time and space.

## Contact Information

Interdisciplinary Humanities (<http://college.wfu.edu/humanities/>)  
Reynolda Hall 102  
Phone 336-758-4497

## Programs

### Minor

- Minor in Interdisciplinary Humanities

## Courses

### Interdisciplinary Humanities (HMN)

**HMN 160. Contemporary Venetian Experience. (1.5 h)**

Social, artistic and environmental aspects of life in contemporary Venice. Includes site visits, guest lectures, and interviews with Venetians. Taught only in Venice. Pass/fail.

**HMN 170. Contemporary Spanish Experience. (1.5 h)**

Social, political, cultural, and environmental factors of life in Spain today. Taught in Salamanca only. Pass/fail only.

**HMN 180. Contemporary London Experience. (1.5 h)**

Social, political, cultural, and environmental factors of life in London today. Taught only in London. Pass/fail.

**HMN 186. Contemporary Chilean Experience. (1.5 h)**

Social, political, cultural, and environmental factors of life in Chile today. Pass/fail. Taught in Chile only.

**HMN 190. Contemporary Viennese Experience. (1.5 h)**

Social, cultural, and environmental factors of life in contemporary Vienna. Includes site visits, guest lectures and interviews with Viennese. Taught only in Vienna. Pass/Fail only.

**HMN 200. Introduction to Humanities: Themes in Literature, Culture, and Film. (3 h)**

An introduction through literature and film to the history, principles, and concepts of the Humanities, using as its framework an examination of such topics as dystopia and utopia, the influence of Classical principles on contemporary Western cultures, social justice and human rights in literature and film, and other topics central to the humanities. Literary and film analysis will explore how cultural values and beliefs are expressed in media and writing, as well as how these beliefs are manifested in popular culture. The course will include creative writing exercises that explore various literary tropes and humanistic themes. (D)

**HMN 211. Dialogues with Antiquity. (3 h)**

Introduction to key ideas and concepts from ancient cultures and their legacies in medieval, modern, and contemporary societies through an interdisciplinary lens. Topics vary with the instructor. (D)

**HMN 212. Reading the Modern World. (3 h)**

Analyzes pivotal moments in modern and contemporary world history through artistic, literary, and cultural manifestations. Course topics vary with the instructor and may include the rise of nationalism and western democracy, the development of European colonialism, and the social, political, and religious causes of international conflicts from world wars to terrorism. (D)

**HMN 213. Studies in European Literature. (3 h)**

Texts studied are by such authors as Dante, Montaigne, Cervantes, Goethe, Dostoevsky, and Camus. (D)

**HMN 219. Introduction to Japanese Literature. (3 h)**

Explores Japanese literature of the modern and contemporary periods. The course examines ways in which literature reveals underlying Japanese values and provides commentary on social, cultural, class, sexuality and gender-based tensions in Japanese society. Course topics include narratives of Japanese cultural and historical development and tropes of modernity in film, art, and culture. (CD, D)

**HMN 220. Historical Perspectives on the Humanities. (3 h)**

Introduction to the concepts and methodology of the curriculum inspiring the Pro Humanitate motto. Investigation of the historical development of the humanities as an academic field founded in the principles of the liberal arts and of its relationship to theology, natural science, and social science.

**HMN 223. African and Caribbean Literature. (3 h)**

Examines works by writers from Africa and the Caribbean to investigate the intersection of history and personal history, and the role of race, class, and gender in the construction of cultural identity in the colonial and the postcolonial context. (CD,D)

**HMN 225. Literature, Travel, and Discovery. (3 h)**

Explores various works, primarily in translation, from Homer to the present that focuses on the relationship between travel and discovery, especially as travel establishes the ongoing connection between the sacred and the profane for both guest and host.

**HMN 226. Interdisciplinary Approaches to Contemporary Fiction. (3 h)**

Examines the formal and thematic developments of the short story and the novel, focusing on fiction's engagement with history, culture, and society from a transnational and interdisciplinary perspective. (CD, D)

**HMN 227. Engaging the Humanities: Social Justice and Equity in Communities. (3 h)**

This course articulates and experiments with frameworks in the Humanities for critically and compassionately engaging pressing social concerns. Course activities include learning to ethically enter into communities, to remain accountable, and to imagine a more equitable society. Readings from contemporary social justice, ethics and literary scholars, in addition to case studies, will provide an introduction to approaches to navigating social contexts and collaborating with community partners. (CD)

**HMN 228. Viennese Culture 1860-1914. (3 h)**

A study of late nineteenth and early twentieth century Vienna as reflected in the matrix of the city's civic and artistic life. Offered in Vienna.

**HMN 232. Italy in Literature. (3 h)**

Readings and discussions in fictions, drama, and poetry that highlight trends and genres in Italian literature from the Middle Ages through contemporary times, and/or literature that features Italy as seen through the eyes of foreigners. Taught only in Venice.

**HMN 262. Racism, Heterosexism, and Religious Intolerance. (3 h)**

A comparative cultural examination through fiction and non-fiction sources of the initiation, maintenance, and treatment of prejudice, with emphasis on American society from the Jim Crow era to the present.

**HMN 272. Literature and Ethics. (3 h)**

Exploration of the possibility of applying ethical frameworks to literature and the challenges raised in fields including the health humanities and bioethics that can challenge literary analysis. The course will explore ethics through prose fiction and nonfiction, poetry, drama, and other writing. Representative authors may include Shakespeare, Hawthorne, Austen, Browning, Dostoevsky, Silone, Nabokov, Miller and Ishiguro. (CD, D)

**HMN 290. The Humanities through Film, Literature and Media. (3 h)**

Using film, literature and media genres as tropes for analysis, an exploration of new and innovative approaches to the humanities in the late 20th and early 21st century including public humanities, digital humanities, and environmental humanities and examining cultural studies, interdisciplinary studies, and gender and sexuality studies as approaches for investigating social justice, environmental justice, and social action. (CD)

**HMN 291. The Humanities and History: Intersections of Public History and the Public Humanities. (3 h)**

Exploration of approaches to public engagement developed in humanities disciplines and an examination of contributions of disciplines in the humanities and the liberal arts to civic discourse and to public engagement. The course includes design and implementation of a local public humanities project.

**HMN 292. Environmentalism, the Humanities, and Gender. (3 h)**

Survey of the global spread of Environmentalism, with an emphasis on its evolution as a disciplinary field that includes eco-feminism and feminist perspectives on the environment. Topics include the investigation of women's roles in environmental history and the construction of global environmental narratives. Also listed as WGS 309.

**HMN 294. Digital Approaches in the Humanities. (1.5, 3 h)**

An introduction to the concepts and tools of the digital humanities. Projects in the digital humanities include exercises that employ the use of these tools to examine data and narratives of the humanities, including disciplinary approaches in literature, public history, women's, gender, and sexuality studies, and media studies.

**HMN 295. Social Entrepreneurship and the Humanities: Innovation, Public Engagement, and Social Change. (3 h)**

Introduction to the role played by the humanities in social entrepreneurship, exploring the premise that norms can be developed for the application of the humanities, and that the knowledge derived in this process can empower and be a tool in community-based engagement and social change. Course includes a social entrepreneurial project in the local community. Also listed as ENT 321.

**HMN 365. Humanity and Nature. (1.5, 3 h)**

Examines the relationships between different social groups and nature from a variety of perspectives: philosophical, scientific, religious, political, legal, and aesthetic with a focus on how various humanistic perspectives articulate a sustainable and viable relationship with nature. The class engages religious, classical, and philosophical texts; visual art; discussions of ecology and human responsibility.

**HMN 370. Medicine and the Humanities. (3 h)**

Explores ideas and questions at the intersection of medical science and the humanities. Topics include the expression of disease in literature and art; the ethics of genetics research; the interplay of religion and medicine; the economics of health care; and the interplay between medical research and care and issues of race, gender, sexuality, colonialism, and disability.

**HMN 374. Humanities and Law. (3 h)**

Examines the common roots of law, philosophy, literature, and politics. Focuses on the interpretative strategies and critical skills that legal professionals, humanists, and artists share.

**HMN 375. Urban Design and the Human Experience. (3 h)**

A study of the role that urban design and planning play in shaping the urban experience, and the impact of design choices on the evolution of the cities and their possible futures. The course will explore human potential and expression in the built environment, drawing from literary and non-fictional accounts of life in cities. Observations and design exercises in local neighborhood and community spaces will serve as a basis for understanding the role of place in urban culture and its ability to shape the human experience. (CD)

**HMN 385. Special Topics. (1-3 h)**

Selected themes and approaches to the study of human culture that bridge disciplinary and/or national boundaries. Can be repeated for credit.

**HMN 389. Directed Reading and Research. (1.5 h)**

A research project in the humanities that pursues a topic studied in one of the courses of the minor and a synthesis of views from a least two traditional disciplines.

**HMN 390. Directed Writing. (1.5 h)**

Capstone project in the minor. P - HMN 389.

## Faculty

**Director** José Luis Venegas

**Associate Professors** Eric Ashley Hairston, David P. Phillips, José Luis Venegas

**Andrew W. Mellon Assistant Professor** William H. Mosley

**Assistant Professor** Michael K. Lamb

**Andrew W. Mellon Teacher-Scholar Postdoctoral Fellow** Kathryn Cai

## Interdisciplinary Humanities, Minor Requirements

Candidates for the minor are required to take the following courses for a total of 15 hours.

Code	Title	Hours
HMN 200	Introduction to Humanities: Themes in Literature, Culture, and Film	3
HMN 211	Dialogues with Antiquity	3
HMN 212	Reading the Modern World	3
Select six hours of Approved Electives		6

HMN 389 and HMN 390, a year-long research project, can count as an elective towards the 15 hour requirement. When these courses are in progress, the student is assigned a minor adviser who assists in planning the purpose and detail of the student's project.

## Electives for Interdisciplinary Humanities

Code	Title	Hours
HMN 213	Studies in European Literature	3
HMN 219	Introduction to Japanese Literature	3
HMN 220	Historical Perspectives on the Humanities	3
HMN 223	African and Caribbean Literature	3
HMN 225	Literature, Travel, and Discovery	3
HMN 226	Interdisciplinary Approaches to Contemporary Fiction	3
HMN 227	Engaging the Humanities: Social Justice and Equity in Communities	3
HMN 228	Viennese Culture 1860-1914	3
HMN 232	Italy in Literature	3
HMN 262	Racism, Heterosexism, and Religious Intolerance	3
HMN 272	Literature and Ethics	3
HMN 290	The Humanities through Film, Literature and Media	3
HMN 291	The Humanities and History: Intersections of Public History and the Public Humanities	3
HMN 292	Environmentalism, the Humanities, and Gender	3
HMN 294	Digital Approaches in the Humanities	1.5,3
HMN 295	Social Entrepreneurship and the Humanities: Innovation, Public Engagement, and Social Change	3
HMN 365	Humanity and Nature	1.5,3
HMN 370	Medicine and the Humanities	3
HMN 374	Humanities and Law	3
HMN 375	Urban Design and the Human Experience	3
HMN 385	Special Topics	1-3
HMN 389	Directed Reading and Research	1.5
HMN 390	Directed Writing	1.5

## Interdisciplinary Major (IND)

Interdisciplinary Major

Highly qualified students may design an Interdisciplinary Major, with a unified focus, on a topic not available as a regular major.

## Contact Information

Interdisciplinary Major (<http://college.wfu.edu/academics/opportunities/design-your-own-major/>)

## Programs Majors

- B.A. in Interdisciplinary Studies
- B.S. in Interdisciplinary Studies

## Courses

### Interdisciplinary Major (IND)

**IND 399. Senior Project. (3 h)**

An independent project carried out under the supervision of a faculty member. (Required for all IND Majors) P - POI.

## Faculty

**Coordinator, Professor of English** Barry Maine

## Interdisciplinary Studies, B.A.

### Requirements

The **Interdisciplinary Major** consists of courses offered by two or more departments, for a minimum of 42 hours, and must include IND 399. A second major may not be declared. A minor may be declared; however, courses used in the interdisciplinary major may not also meet requirements in the minor.

Proposals should be submitted to the Coordinator only after students have completed 40 hours at Wake Forest, though planning can and should begin sooner. Guidelines for submitting proposals can be found on the Interdisciplinary Major website (<http://college.wfu.edu/academics/opportunities/design-your-own-major/>). Proposals are reviewed by the Open Curriculum Committee, which reserves the right to accept or reject them.

## Interdisciplinary Studies, B.S.

### Requirements

The **Interdisciplinary Major** consists of courses offered by two or more departments, for a minimum of 42 hours, and must include IND 399. A second major may not be declared. A minor may be declared; however, courses used in the interdisciplinary major may not also meet requirements in the minor.

Proposals should be submitted to the Coordinator only after students have completed 40 hours at Wake Forest, though planning can and should begin sooner. Guidelines for submitting proposals can be found on the Interdisciplinary Major website (<http://college.wfu.edu/academics/opportunities/design-your-own-major/>). Proposals are reviewed by the Open Curriculum Committee, which reserves the right to accept or reject them.



# International Studies (INS)

## Interdisciplinary Minor

The minor provides an opportunity to explore the various facets of an increasingly globalized world. It is designed to expose students to a variety of trans-regional themes on the one hand and particular knowledge of specific regions on the other. Building upon an approved study abroad experience, students are able to develop a broader understanding of the complex and interdependent global forces that shape our current world. The minor concludes with the capstone seminar (INS 250) in which students in their senior year are given an opportunity to pull together many of the themes that they have studied in the relevant courses and explore a particular research topic in great detail through the writing of a major paper.

## Contact Information

International Studies (<https://global.wfu.edu/global-campus/international-minors/international-studies/>)

## Programs

### Minor

- Minor in International Studies

## Courses

### International Studies (INS)

#### INS 101. Overseas Study. (1-3 h)

Directed reading and/or field work as part of an approved overseas program under the supervision of a professor, instructor, or the program director/coordinator or the Center for Global Programs and Studies. P-POI.

#### INS 105. City as Text. (1-3 h)

Introduction to the historical, cultural, and physical geography of the host city for Wake Forest study abroad programs. Participants travel throughout the city visiting plazas, neighborhoods, museums and other points of interest. Specific attention is given to areas of artistic, architectural, cultural, and historical significance. Students maintain journals and complete reflection papers. Only offered at Wake Forest study abroad locations.

#### INS 120. Language and Culture Study. (1-3 h)

Provides communicative and cultural training to students studying on Wake Forest study abroad programs in locations where the languages of the host country is not currently taught at Wake Forest. Course intended to ensure students are not linguistically isolated while abroad; prepares students to interact with locals and increase their ability to reflect on the cross-cultural experience of living in the host country. Topics include explorations of language, culture, art, history, film, and current events. Only offered at Wake Forest study abroad locations.

#### INS 130. Global Village Living and Learning Community. (1-3 h)

This interdisciplinary course is designed to create discussion around global issues and global citizenship for residents of the Global Village Living and Learning Community. Students are exposed to a variety of ways to view global citizenship through five global competencies - expression, engagement, discourse, inquiry, and connections. This class is designed to be taken twice, once in the Fall semester and once in Spring semester.

#### INS 140. United Nations/Model United Nations. (1.5 h)

Exploration of the history, structure, and functions of the United Nations including current economic, social, and political issues. An in-depth analysis of one country in the UN and attendance at the Model UN Conference. May be taken twice for credit. Pass/Fail only.

#### INS 150. Preparing for Cross-Cultural Engagement Abroad. (1 h)

Introduces students to theoretically-based issues and skills needed for understanding and interacting with people in other cultures. Taken in the semester before the student studies abroad. Pass/Fail only. P-POI.

#### INS 151. Cross-Cultural Engagement Abroad. (1 h)

Gives students the opportunity to apply knowledge and skills gained from INS 150 to develop a better understanding of cultural variables such as value orientations, communication styles, and nonverbal communication. Taken while the student is abroad. Pass/Fail only. P-POI.

#### INS 152. Cross-Cultural Engagement and Re-entry. (1 h)

Students reflect on their experience abroad and the cultural learning that occurred there. They also develop strategies for dealing with re-entry and applying the lessons learned now and in the future. Taken in the semester after the student has studied abroad. Pass/ Fail only. P-POI.

#### INS 153. Intro US and Univ Culture. (1-3 h)

This course provides students with a better understanding of the framework and cultural milieu of life in the U.S. and at U.S. universities in order to help them make sense of the cultural differences they (will) encounter in academics, customs, politics, media, and sports, among others. Taken by international students prior to or during their first semester at Wake Forest. Pass/Fail only.

#### INS 154. Community Based Global Learning. (0-3 h)

Focuses on understanding community based global service engagement in a global context. Students explore the history of service, charity, and ethical service around the world. Using case studies, students consider the role of volunteers as effective global change agents, causes of and barriers to success for global service providers, and the structure and operation of international nonprofit organizations. The course introduces students to theoretically-based issues and skills needed for understanding and interacting with people from cultures different from their own.

#### INS 170. Special Topics. (0-3 h)

Topics that are not covered in other international studies courses. May be repeated for up to six hours if the topic changes.

#### INS 228. Individual Study. (1-3 h)

Intensive research leading to the completion of an individual project conducted under the supervision of a faculty member. Students are responsible for initiating the project and securing permission of an appropriate faculty member. P-POI.

#### INS 229. Internship in International Studies. (1-3 h)

Field work directly related to international issues in a public or private setting under the supervision of a faculty member. Related readings and an analytical paper are minimum requirements. Students are responsible for initiating the project and securing the permission of an appropriate instructor. P-POI.

#### INS 250. Introduction to International Studies. (3 h)

An overview of key themes related to the study of international issues. Topics include but are not limited to migration, urbanization, economic development, trade, foreign aid, nationalism and identify, consumerism, gender and culture. (CD)

**INS 260. Seminar in Global Trade and Commerce Studies. (3 h)**

Provides integrative knowledge in global trade and commerce. Focuses on understanding the global environment and the variety of issues associated with global trade and commerce.

**INS 349. Japanese and American Culture: Cross-Cultural Communication. (3 h)**

An exploration of communication differences between the Japanese and the Americans. Japanese and American values, behavior, and beliefs will be compared in determining effective methods for cross-cultural communication. Special emphasis will be placed on examining factors leading to miscommunication and the development of techniques for overcoming cultural barriers. Credit not given for both INS 349 and COM 351A. Also listed as COM 351A. (CD)

**INS 363. Global Capitalism. (3 h)**

An analysis of changing patterns of industrial organization, market, and labor relations, and institutional frameworks that have resulted from the growth of an integrated global capitalist economy. Also listed as SOC 363.

**INS 365. Technology, Culture, and Change. (3 h)**

Examines the interrelated forces that shape change in organizations and societies; from the emergence of capitalist markets to the systems, controls, and information revolution of the 21st century. Also listed as SOC 365.

## Faculty

**Coordinator, Professor of Sociology and International Studies** Ian Taplin

**Research Associate Professor** Nelson Brunsting

**Part-time Lecturers** Porshe Chiles, Kara Rothberg

## International Studies, Minor

### Requirements

Consists of a total of 18 hours which must include:

Code	Title	Hours
INS 250	Introduction to International Studies *	3
Select 15 additional hours from approved International Courses including:		15
Three courses from Global Thematic Studies		
Two courses from Regional Studies		
Approved Study Abroad Program **		3

\* *Must be taken in either the fall or spring semester of the senior year, and it must follow completion of the other aforementioned requirements.*

\*\* *In which a minimum of three credits are earned. International students residing in the U.S. in a non-immigrant visa status are exempt from the study abroad requirement.*

No more than six of the 18 hours for the minor may be taken from a single discipline.

The current list of approved courses is available in the Center for Global Programs and Studies and on its website. Additional elective courses may have been approved since publication of this bulletin. The program coordinator maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this publication.

## Global Thematic Studies

Three courses (preferably selected from two categories). Categories include cultural studies (religion, music, and literature), socioeconomic studies, and geopolitical studies.

Code	Title	Hours
<b>Cultural Studies</b>		
ANT 336	Myth, Ritual and Symbolism	3
ANT 350	Language, Indigeneity and Globalization	3
ANT 355	Language and Culture	3
ANT 360	Anthropology of Global Health	3
ANT 383 & ANT 384	Field program in Cultural Anthropology and Field Program in Cultural Anthropology	6
ART 260	Classics of World Cinema	3
COM 350	Intercultural Communication	3
COM 351A	Comparative Communication: Japan	3
COM 354	International Communication	3
COM 370	Special Topics (when topic is Cross-Cultural Communication in Multinational Organizations)	3
ENG 358	Postcolonial Literature	3
ENG 359	Studies in Postcolonial Literature	3
FRH 216	Studies in French and Francophone Literature and Culture	3
FRH 370	Seminar in French and Francophone Studies	3
HMN 225	Literature, Travel, and Discovery	3
HMN 290	The Humanities through Film, Literature and Media	3
HST 256	The U.S and the World, 1763-1914	3
HST 257	The U.S and the World since 1914	3
HST 341	Africans in the Atlantic World, 1750-1815	3
HST 343	The Silk Roads	3
HST 384	Global Outlaws History since 1500	3
INS 150 & INS 151 & INS 152	Preparing for Cross-Cultural Engagement Abroad and Cross-Cultural Engagement Abroad and Cross-Cultural Engagement and Re-entry (all 3 courses must be taken to count for the minor)	3
INS 349	Japanese and American Culture: Cross-Cultural Communication	3
MUS 209	Music of World Cultures	3
PSY 357	Cross-Cultural Psychology	3
REL 305	Ethnography of Religion	3
REL 361	Topics in Buddhism	3
REL 362	Topics in Islam	3
REL 381	Zen Buddhism	3
SPA 347	Contemporary Theater in Spain and Spanish America	3
SPA 356	Transgressing Borders: Identity in Latin-American and U.S. Latino Cultures	3
THE 374	Contemporary World Drama	3
<b>Socio-economic Studies</b>		
ANT 337	Economic Anthropology	3

BEM 315	Managing in a Global Context	3
BEM 322	Global Marketing Strategy	3
BEM 391	Global Business Studies	3
ECN 351	International Trade	3
ECN 352	International Finance	3
ECN 358	Economic Growth and Development	3
FIN 234	International Finance	3
HST 350	World Economic History: Globalization, Wealth and Poverty, 1500-Present	3
INS 260	Seminar in Global Trade and Commerce Studies	3
INS 363	Global Capitalism	3
POL 239	State, Economy, and International Competitiveness	3
SOC 363	Global Capitalism	3
<b>Geopolitical Studies</b>		
EDU 271	Geography: The Human Environment	3
EDU 273	Geography: The Natural Environment	3
EDU 274	Environmental Geography	3
HST 309	European International Relations since World War I	3
HST 369	Modern Military History	3
POL 237	The Comparative Politics of Welfare States	3
POL 238	Comparative Economic Development and Political Change	3
POL 245	Ethnonationalism	3
POL 247	Islam and Politics	3
POL 253	International Political Economy	3
POL 255	Terrorism and Asymmetric Conflict	3
POL 256	International Security	3
POL 261	International Law	3
POL 262	International Organizations	3
POL 263	U.S. Foreign Policy in the Middle East	3
POL 264	Moral Dilemmas in International Politics	3
PHI 366	Global Justice	3
WGS 329	Politics of Gender and Sexuality: Cross-Cultural Perspectives	3

## Regional Studies

Two courses preferably selected from a single region. Regions include Africa, Asia, Europe, Latin America, and the Middle East.

Code	Title	Hours
<b>Africa</b>		
ENG 356	Literature of the Caribbean	3
HST 269	African History since 1850	3
HST 336	Gender and Power in African History	3
HST 340	Urban Africa	3
HST 341	Africans in the Atlantic World, 1750-1815	3
HST 378	Race, Memory, and Identity	3
POL 242	Topics in Comparative Politics	3
POL 252	Topics in International Politics	3
REL 339	Religion, Power, and Society in Modern Africa	3

<b>Asia</b>		
ANT 334	People and Cultures of South Asia	3
ART 204	South Asian Art and Architecture	3
EAL 271	Mass Culture in Modern China	3
EAL 272	Literature and Film from Taiwan, Hong Kong, and Beyond	3
EAL 375	Senior Research Seminar	3
EAS 311	Special Topics in East Asian Studies	1-3
EAS 381	Independent Research in East Asian Studies	1-3
HST 245	Modern China since 1850	3
HST 247	Japan since 1600	3
HST 249	Intro to East Asia	3
HST 347	The Rise of Asian Economic Power since WWII	3
POL 241	Contemporary India	3
POL 246	Politics and Policies in South Asia	3
POL 248	Chinese Politics	3
REL 361	Topics in Buddhism	3
REL 363	The Religions of Japan	3
REL 381	Zen Buddhism	3
REL 382	Religion and Culture in China	3
REL 385	Topics in South Asian Religions	3
REL 386	Indian Epics	3
<b>Europe</b>		
ART 230	Spanish Art and Architecture	3
ART 235	Arts of London	3
ART 276	Austrian Art and Architecture	3
ECN 372	Selected Areas in Economics	1-3
ENG 362	Irish Literature in the Twentieth Century	3
ENG 368	Studies in Irish Literature	3
FRH 360	Cinema and Society	3
FRH 363	Trends in French and Francophone Poetry	3
FRH 364	French and Francophone Prose Fiction	3
FRH 365	French and Francophone Drama	3
GER 214	Masterpieces of Austrian Literature	3
GER 321	German Culture and Civilization II	3
GER 350	German-Jewish Literature and Culture	3
GER 381	German Literature from 1700-1815	3
GER 383	German Literature from 1815-1900	3
GER 385	German Literature from 1900 to Present	3
GES 331	Weimar Germany	3
GES 335	German Film	3
GES 337	Myth and National Identity Formation	3
GES 341	Austrian Literature in Translation	3
GES 390	German Women Writers	3
GES 397	Intellectual History of Weimar	3
HST 218	France since 1815	3
HST 220	Germany: Unification to Unification 1871 to 1990	3
HST 224	Great Britain since 1750	3
HST 225	History of Venice	3
HST 231	Russia and Soviet Union: 1865 to Present	3

HST 232	Introduction to Russian and East European Studies	3	SPA 356	Transgressing Borders: Identity in Latin-American and U.S. Latino Cultures	3
HST 309	European International Relations since World War I	3	SPA 360	Contemporary Theatre	3
HST 318	Weimar Germany	3	<b>Middle East</b>		
HST 328	History of the English Common Law	3	HST 388	Nation, Faith, and Gender in the Middle East	3
HST 333	European Diplomacy 1848-1914	3	HST 389	The British Empire in the Middle East	3
HST 389	The British Empire in the Middle East	3	POL 247	Islam and Politics	3
HMN 228	Viennese Culture 1860-1914	3	POL 259	Palestine and the Arab-Israeli Conflict	3
IAS 325	Italian Neorealism in Films and Novels	3	POL 263	U.S. Foreign Policy in the Middle East	3
ITA 324	Italian Regional Cultures	3	POL 274	Arab and Islamic Political Thought	3
ITA 326	Comedy in Italian Cinema	3	<b>Jewish Studies</b>		
ITA 327	Modern Italian Cinema	3	Interdisciplinary Minor		
ITA 333	Italian Theatre	3	<b>The Jewish Studies minor</b> emphasizes Jewish history, religion, thought, texts, literature, the arts, traditions, and the ways that they have formed in the context of various civilizations from antiquity to the present.		
ITA 335	Italian Women Writers	3	Judaism and Jewish civilization developed - and continue to do so - as a result of interaction with other religions and cultures. The minor, therefore, is trans-regional/national and thereby links disparate fields of study that are usually examined separately. Jews and Judaism are studied within the broader context of world civilizations and the spectrum of the arts, humanities, and social sciences. In this regard, the minor complements already existing areas of interest in a number of majors and disciplines, (such as American Ethnic Studies, History, International Studies, Medieval Studies, Politics and International Affairs, and Religious Studies).		
ITA 336	Italian Women and the City	3	The interdisciplinary approach of the minor exposes students to a wide range of disciplines and, like other established interdisciplinary minors, gives students the opportunity for synthesizing and critically reflecting on their course of study. The Jewish Studies minor provides interested students a grounding for graduate study in the humanities, religion, and social sciences.		
ITA 338	South in Contemporary Italy	3	Additional elective courses may have been approved since publication of this bulletin. The program director maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listing in this bulletin.		
POL 202	Political Structures of Present-day Spain	3	<b>Contact Information</b>		
POL 231	Western European Politics	3	Jewish Studies ( <a href="https://jewishlife.wfu.edu/resources/academics-jewish-studies-program/">https://jewishlife.wfu.edu/resources/academics-jewish-studies-program/</a> )		
POL 232	Politics in Russia and Eastern Europe	3	<b>Programs</b>		
POL 233	The Politics of Modern Germany	3	<b>Minor</b>		
POL 234	United Kingdom Politics in a Global Age	3	• Minor in Jewish Studies		
POL 235	European Integration	3	<b>Faculty</b>		
RUS 210	Russians and Their World	3	<b>Director, The Michael H. and Deborah Rubin Presidential Chair of Jewish History and Associate Professor Barry Trachtenberg</b>		
RUS 341	Russian Literature in Translation	3	<b>Jewish Studies, Minor</b>		
SPA 334	Voices of Modern Spain	3	A minimum of fifteen credit hours is required to graduate with a minor in Jewish Studies. Courses for the minor are approved by the Advisory		
SPA 342	From Colonial to Postcolonial Voices	3			
SPA 346	Transatlantic Transitions: Postdictatorship in Spain and the Southern Cone	3			
SPA 348	Contemporary Women Novelists and their Female Characters	3			
SPA 349	Great Authors and Directors	1.5-3			
SPA 351	Cinema and Society	3			
<b>Latin America</b>					
BEM 322	Global Marketing Strategy	3			
EDU 373	Comparative and International Education (offered in Spain)	3			
HST 275	Modern Latin America	3			
HST 284	Latin America's Colonial Past	3			
HST 374	Protest and Rebellion in Latin America	3			
LAS 210	Introduction to Latin-American and Latino Studies	3			
LAS 220C	Afro-Cuban Cultural Expression	3			
LAS 310	Special Topics in Latin American and Latino Studies	3			
LAS 398	Individual Study	3			
MUS 210	Survey of Latin American Music	3			
POL 236	Government and Politics in Latin America	3			
POL 257	Politics of International Development	3			
SPA 342	From Colonial to Postcolonial Voices	3			
SPA 347	Contemporary Theater in Spain and Spanish America	3			
SPA 355	Romantic Nationalism, Avant-garde Nihilism, and the Deconstruction of Utopia	3			

Committee of the Jewish Studies Program. The courses must be from at least two departments, at least three must be upper level courses (200 level or above). No more than six credit hours of Hebrew or another Jewish language can be counted toward the minimum number of courses required.

Code	Title	Hours
COM 339	Practices of Citizenship *	3
ENG 364	Advanced Studies in Literary Criticism *	3
ENG 371	American Ethnic Literature *	3
ENG 377	American Jewish Literature *	3
GER 212	Introduction to German Short Fiction	3
GES 337	Myth and National Identity Formation	3
GER 350	German-Jewish Literature and Culture	3
GES 351	German-Jewish Literature and Culture	3
HST 235	The History of European Jewry from the Middle Ages to the Present	3
HST 236	The Nazi Holocaust to 1941 (Rise of Nazism, Jewish Responses, Global Reaction)	3
HST 237	The Nazi Holocaust from 1941 (War, Genocide, and Aftermath)	3
HST 239	Jewish History in the Americas	3
HST 305	Medieval & Early Modern Iberia	3
HST 310	20th Century Eastern Europe *	3
HST 312	Jews, Greeks and Romans	3
HST 320	Write and Record! Diaries and Memoirs of the Nazi Holocaust	3
HST 321	Zionism, Palestine, and Israel in Historical Perspective	3
NLL 111 & NLL 112	Elementary Hebrew and Elementary Hebrew	6
NLL 153	Intermediate Hebrew	3
NLL 211 & NLL 212	Hebrew Literature and Hebrew Literature II	6
NLL 311	Aramaic	3
NLL 314	Readings from the Rabbis	3
POL 242	Topics in Comparative Politics (The Politics of Exile or The Politics of Exile and Diaspora) *	3
POL 259	Palestine and the Arab-Israeli Conflict	3
REL 113	Introduction to Jewish Traditions	3
REL 308	Sacred Scripture in the Traditions of Abraham	3
REL 310	The Prophetic Literature	3
REL 312	The Critical Study of the Pentateuch	3
REL 315 & REL 316	Field Research in Biblical Archeology and Field Research in Biblical Archeology	6
REL 317	Wisdom Literature *	3
REL 328	Jewish-Christian Relations and the New Testament	3
REL 355	Jewish Identities: Religion, Race, and Rights	3
REL 356	Faces of Modern Judaism	3
REL 357	Jews in the United States	3

SPA 331	Medieval Spain: A Cultural and Literary Perspective *	3
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\* Indicates the course must be approved by the instructor and the Jewish Studies director.

## Journalism (JOU)

The Journalism Program offers an interdisciplinary minor in the practice of journalism and its role in a free society. Students report and tell stories in a range of media as they learn to verify facts, establish their independence, and serve their readers or audience. A minor in journalism pairs well with any major in the College or School of Business.

## Contact Information

Journalism Program

## Programs

### Minor

- Minor in Journalism

## Courses

### Journalism (JOU)

#### JOU 270. Introduction to Journalism. (3 h)

Fundamentals of news reporting, news writing, and news judgment. Digital skills introduced and practiced. Intensive in-class writing.

#### JOU 278. News Literacy. (3 h)

Exploring the difference between news and propaganda, news and opinion, bias and fairness, citizen reporting and professional journalism with a goal of training more discriminating and thoughtful producers and consumers of news. Included: historical context of the news industry.

#### JOU 310. Editing. (3 h)

Fundamentals in copy editing and headline writing as it applies to print and online journalism. Applying grammar, adherence to Associated Press style, and use of photos, lay-out and news judgment to improve news and feature stories. Intensive in-class editing. P - JOU 270 or POI.

#### JOU 315. Beat Reporting. (3 h)

Fundamentals in identifying and developing news and feature beats. Emphasis on interviewing skills, source development, story identification and writing for print and online. Digital skills such as blogging, photography, video production, and social media practiced. Highly interactive. P - JOU 270.

#### JOU 320. Community Journalism. (3 h)

Produce stories in a range of media for an online publication with a growing readership about the people, places, and trends that create community in downtown Winston-Salem. Students will break news, explore the arts scene, tell stories about interesting people in town and practice journalism on the ground. P - JOU 270 or POI.

#### JOU 325. Writing for a Social Purpose. (3 h)

Combines writing, service learning, and entrepreneurship approaches in communication by partnering students with a local nonprofit organization to provide a range of writing solutions in print and online. Also listed as ENT 203. P - JOU 270 or POI.

**JOU 330. Podcasting. (3 h)**

Introduction to audio storytelling. As the world of podcasting and nonfiction audio grows rapidly, students will learn the building blocks and best practices of audio journalism, including sound editing, and interviewing, and story, and will discuss what journalism means in these changing times.

**JOU 335. Multimedia Storytelling. (3 h)**

Provides concepts and applied skills related to digital news production, digital research, use of search engine optimization and analytics, social media as a reporting and branding tool, navigating content management systems, visual storytelling and web publishing.

**JOU 340. Magazine Writing. (3 h)**

Analysis of magazine writing and long form journalism with practice pitching, reporting and writing articles in a range of styles and of varied lengths with specific audiences in mind. Also listed as WRI 344.

**JOU 345. Sports Journalism. (3 h)**

Introduction to the world of sports, the lives of athletes and the influence both have on American culture and college campuses. Students will keep a blog, conduct regular interviews, cover on- and off-campus sports events, write opinion columns, produce multimedia stories and profile Wake Forest athletes. P - JOU 270 or POI.

**JOU 350. Writing for Public Relations and Advertising. (1.5, 3 h)**

Principles and techniques of public relations and applied advertising and marketing. Students use case studies to develop public relations and advertising strategies. Also listed as COM 117.

**JOU 355. Broadcast Journalism. (3 h)**

Introduces students to best practices in broadcast storytelling, including scripting, producing, filming, editing and anchoring a news broadcast. Also listed as COM 215.

**JOU 370. International Reporting. (3 h)**

Students explore a part of the world as journalists do, interviewing, observing, and exploring to produce stories that shed light on the people, culture, and issues that define that place. P - JOU 270 or POI.

**JOU 375. Special Topics in Journalism. (1-3 h)**

Study and practice of new trends, innovations and subject matters in journalism. May be repeated once for credit, provided the topic has changed. P - JOU 270 or POI.

**JOU 390. Internship. (1-3 h)**

Practical experience in journalism. Students work with a faculty adviser. Cannot be repeated except with approval of the director.

**JOU 395. Individual Study. (1-3 h)**

Independent study with faculty guidance. By prearrangement.

## Faculty

**Director, Associate Professor of the Practice** Phoebe Zerwick

**Professor of the Practice** Justin Catanoso

**Assistant Professor of the Practice** Ivan Weiss

**Adjunct Lecturer** Peter Mitchell, Barry Yeoman

**Part-time Lecturer** Maria Henson

## Journalism, Minor

### Requirements

The minor consists of 18 credits, beginning with the gateway course JOU 270, Introduction to Journalism. JOU 278, News Literacy, is a second required course and can be taken at any time. Students take 12 hours of elective credit, which can be drawn from upper level JOU courses or

a list of courses in other departments across the College. Students may only count one elective toward another major or minor. Students may also take Journalism courses for general elective credit.

Code	Title	Hours
<b>Required Minor Courses</b>		
JOU 270	Introduction to Journalism*	3
JOU 278	News Literacy**	3
Select four additional Journalism Course Electives		12

(Students may pick one course from the following list to fulfill an elective in the minor.)

\* JOU 270 is a pre-requisite for advanced writing courses.

\*\* JOU 278 can be taken at any time.

## Journalism Electives

Code	Title	Hours
JOU 310	Editing	3
JOU 315	Beat Reporting	3
JOU 320	Community Journalism	3
JOU 325	Writing for a Social Purpose	3
JOU 330	Podcasting	3
JOU 335	Multimedia Storytelling	3
JOU 340	Magazine Writing	3
JOU 345	Sports Journalism	3
JOU 350	Writing for Public Relations and Advertising	1.5,3
JOU 355	Broadcast Journalism	3
JOU 370	International Reporting	3
JOU 375	Special Topics in Journalism	1-3
JOU 390	Internship	1-3
JOU 395	Individual Study	1-3

## Electives Outside of Journalism

The practice of journalism, with its central role in American democracy and culture, requires students to tell compelling stories in a range of media. Increasingly, journalism is also a data-driven field, with some of the most important stories of our time based on the analysis of data. Students may pick one course from the following list to fulfill elective credit in Journalism. With approval of the director, students interested in tailoring the minor to a particular interest have the option of selecting a second interdisciplinary elective from the list below or choosing one upper-level course not listed below.

Please refer to departmental listings for more detail on each course.

Code	Title	Hours
<b>Storytelling Courses</b>		
ART 114	Introduction to Film and Video Art	3
ART 119	Introduction to Darkroom Photography	3
ART 120	Introduction to Digital Photography	3
ART 122	Design Studio: Visualization of Ideas	3
ART 214	Film and Video Art: Site Specific	4
ART 224	Film and Video Art: Cyberspace	4
ART 229	Digital Photography	4
COM 247	Media Production I	3
COM 309	Visual Storytelling	3

COM 310	Media Production II	3
COM 316	Screenwriting	3
COM 325	On Camera Performance	3
COM 365	Imagination Project	3
CRW 287	Literary Nonfiction Workshop	3
CRW 387	Advanced Literary Nonfiction Workshop	3
ENV 306	Topics in Environmental Studies	1-4
HST 367	Public History	3
WGS/ENT 326	Telling Women's Lives: Writing about Entrepreneurs, Activists, and Thought Leaders	3
WRI 210	Advanced Academic Writing	3
WRI 212	Literary Nonfiction: Art of the Essay	3
WRI 320	Writing in and about Science: Scientists as Writers and Writers as Scientists	3
<b>Computer, Technology and Information Literacy Courses</b>		
CSC 101	Overview of Computer Science	3
CSC 111	Introduction to Computer Science	4
CSC 321	Database Management Systems	3
CSC 322	Data Management and Analytics	3
CSC 361	Digital Media	3
CSC 363	Computer Graphics	3
<b>Media, Democracy and Culture Courses</b>		
COM 245	Introduction to Mass Communication	3
COM 304	Freedom of Speech	3
COM 319	Media Ethics	3
HST 362	American Constitutional History	3
POL 217	Politics and the Mass Media	3
WGS 271	Making Sense of the News Through a Feminist Lens	1-3

## Languages Across the Curriculum (LAC)

Languages Across the Curriculum (LAC) is a strategy to integrate foreign language use throughout the curriculum. It facilitates the collaboration of faculty by bridging disciplinary boundaries, and it promotes the internationalization of course offerings. LAC encourages multicultural understanding and an appreciation of the place of different disciplines in a global context. It recognizes the importance of multilingualism in today's society. Faculty and students learn how a discipline they have first studied in their native English is approached by different cultures and different linguistic codes.

Faculty members determine the most appropriate LAC model and level for their courses. For more information about the various models for LAC implementation, visit <http://college.wfu.edu/spanishitalian/interdisciplinary-programs/>.

## Latin-American and Latino Studies (LAS)

Interdisciplinary Minor

The Latin American and Latino Studies Program was established to encourage the study of Latin American and Latino history, culture,

geography, economics and politics. Working with students and a distinguished interdisciplinary faculty, the Program is committed to enhancing and advancing the understanding of and appreciation for Latin America and its people.

## Five-Year BA/MA Degree Program Option

Students who choose to minor in Latin-American and Latino Studies have the opportunity to pursue a joint BA/MA program in conjunction with the Center for Latin-American Studies at Georgetown University in Washington, D.C. This program allows outstanding students interested in Latin America to begin work toward an interdisciplinary master's degree in Latin-American studies while still undergraduates at Wake Forest, and to complete both degrees within a five-year period. The Bachelor of Arts degree is awarded by Wake Forest, while the master's degree is awarded by Georgetown. Interested students should contact the director of Latin-American studies or the five-year degree program coordinator.

## Semester in Argentina/Chile

The Latin-American and Latino Studies minor offers a spring semester program based in Santiago, Chile with a three week study component in Buenos Aires, Argentina. Students go as a group, accompanied by a professor from the College. No particular major or minor is required for eligibility. Interested students should contact Peter Siavelis in the Politics and International Affairs Department, or visit the Center for Global Programs and Studies website at <http://global.wfu.edu>.

## Latina/o Mentoring Initiative

WFU's Latin American and Latino Studies (LALS), in partnership with El Buen Pastor Latino Community Services (EBPLCS), offers a mentoring program for Latino middle school and high school youth of Winston-Salem, North Carolina. The program consists of pairing WFU students with Latino students affiliated with EBPLCS for a mentoring relationship that lasts at least two years. WFU mentors who are LALS minors have the opportunity to earn three LALS credit hours for partaking in an independent study course. This course entails working on a research project assessing the mentoring program under the guidance of an LALS faculty member. Some of the benefits for LALS minors partaking in this initiative include: developing a more comprehensive understanding of the strength and struggles of Latino students in the U.S., developing critical thinking, analytical, quantitative literacy and writing skills, developing strong leadership and interpersonal communication skills, receiving LALS course credit for partaking in an independent study, and developing a rewarding relationship with a local Latino student that can last a lifetime. For more information, contact the co-directors of the mentoring program, Betina Wilkinson or Peter Siavelis.

## Contact Information

Latin American and Latino Studies (<http://college.wfu.edu/lals/>)  
Kirby Hall 308, Box 7568  
Phone 336-758-5451

## Programs Minor

- Minor in Latin-American and Latino Studies

## Courses

### Latin-American and Latino Studies (LAS)

#### LAS 210. Introduction to Latin-American and Latino Studies. (3 h)

Introduces the historical, economic, cultural, and social issues which shape Latin America. (CD)

#### LAS 220C. Afro-Cuban Cultural Expression. (3 h)

A comprehensive study of Cuban culture with a concentration on the artistic manifestations of Afro-Cuban religions. Students study literature, art, film, music, and popular culture to analyze how Afro-Cuban culture constitutes national culture. Also listed as SPA 368. Offered in Havana. (CD)

#### LAS 281. Contemporary Chile in Latin American Perspective. (3 h)

Introduces the nature and content of contemporary Chilean politics by placing them in a wider analysis of Latin American politics, history, and society, and international relations. Normally offered in Chile unless otherwise noted.

#### LAS 310. Special Topics in Latin American and Latino Studies. (3 h)

Selected topics in Latin American and Latino studies; topics vary from year to year. (CD)

#### LAS 380. Latin American and Latino Studies Honors Colloquium. (4 h)

Honors capstone colloquium consisting of varied readings and an individual research project. Normally offered in Chile unless otherwise noted.

#### LAS 388. Internship in Latin American and Latino Studies. (1-3 h)

Internship course designed to meet the needs and interests of selected students, to be carried out under the supervision of a faculty member in the Latin American and Latino Studies minor. P - POL.

#### LAS 398. Individual Study. (1-3 h)

A reading or research course designed to meet the needs and interests of selected students, to be carried out under the supervision of a faculty member in the Latin American Studies minor. P-POL.

## Faculty

Director, Associate Professor of Spanish and Italian Kathryn Mayers  
Reynolds Professor Luis Roniger

## Latin-American and Latino Studies, Minor

### Requirements

Provides an opportunity for students to undertake a multidisciplinary study of the history, culture, economics, and politics of Latin America, the Caribbean, and of the Latino population in the U.S. It consists of a total of 15 hours; three of these (but no more) may also count toward the student's major. Courses applied toward other minors may also be applied toward the Latin-American and Latino Studies minor. Candidates for the minor are required to take:

Code	Title	Hours
<b>Required Minor Courses</b>		
LAS 210	Introduction to Latin-American and Latino Studies	3
Select 12 hours of coursework related to Latin America or to Latinos in the U.S **		12

\* LAS 310 if taken in Chile as part of the honors in Latin-American and Latino Studies program can also fulfill the LAS 210 requirement.

\*\* No more than six of these 12 hours may be in a single discipline.

Candidates should demonstrate proficiency in Spanish or Portuguese either by completing at least one Spanish or Portuguese course at the 200 level or by undergoing an oral proficiency interview with a member of the faculty of the Department of Romance Languages.

Students may choose from the following list of electives when designing their minor. See the relevant department listings for course descriptions. Additional elective courses may have been approved since publication of this bulletin. The program director maintains a complete list of all approved elective courses. Visit <http://college.wfu.edu/lals/> for current offerings.

### Electives for Latin-American and Latino Studies

Code	Title	Hours
ANT 327	Global Justice and Human Rights in Latin America	3
ANT 342	Applied Anthropology	3
ANT 360	Anthropology of Global Health	3
ANT 383 & ANT 384	Field program in Cultural Anthropology and Field Program in Cultural Anthropology	6
ANT 385 & ANT 386	Special Problems Seminar and Special Problems Seminar (if related to Latin America)	6
BIO 349	Tropical Biodiversity of the Amazon and Andes	4
ECN 351	International Trade	3
ECN 352	International Finance	3
ECN 358	Economic Growth and Development	3
ENG 357	Studies in Chicano/a Literature	3
HST 104	World Civilizations since 1500 (if related to Latin America)	3
HST 108	Americas and the World	3
HST 275	Modern Latin America	3
HST 284	Latin America's Colonial Past	3
HST 311	Special Topics in History (if related to Latin America)	3
HST 359	Prostitutes, Machos, and Travestis: Sex and Gender in Latin American History	3
HST 374	Protest and Rebellion in Latin America	3
HST 390	Research Seminar (if related to Latin America)	4
HMN 186	Contemporary Chilean Experience	1.5
HMN 223	African and Caribbean Literature	3
MUS 210	Survey of Latin American Music	3
POL 210	Topics In United States Politics and Policy	3
POL 214	Latino/a Political Behavior	3
POL 224	Racial and Ethnic Politics	3
POL 236	Government and Politics in Latin America	3
POL 240	Politics of Human Rights	3
POL 242	Topics in Comparative Politics (if related to Latin America)	3



POL 257	Politics of International Development	3	SPA 347	Contemporary Theater in Spain and Spanish America	3
POL 300	Senior Seminar in Political Science (if related to Latin America) *	4	SPA 348	Contemporary Women Novelists and their Female Characters (if related to Latin America or Latino Studies)	3
PTG 111 & PTG 112	Elementary Portuguese and Elementary Portuguese **	6	SPA 349	Great Authors and Directors (if related to Latin America or Latino Studies)	1.5-3
PTG 113	Intensive Elementary Portuguese	4	SPA 350	Film Adaptations of Literary Works (if related to Latin America or Latino Studies)	3
PTG 154	Accelerated Intermediate Portuguese	3	SPA 351	Cinema and Society (if related to Latin America or Latino Studies)	3
PTG 212	Exploring the Lusophone World	3	SPA 355	Romantic Nationalism, Avant-garde Nihilism, and the Deconstruction of Utopia	3
REL 103B	Introduction to Latin American Christian Traditions	3	SPA 356	Transgressing Borders: Identity in Latin-American and U.S. Latino Cultures	3
REL 390	Special Topics in Religion (if related to Latin America)	1.5-3	SPA 357	Spanish American Short Story	3
SOC 356	Sociology of Immigration	3	SPA 358	Spanish-American Novel	3
SOC 359	Race and Racism	3	SPA 359	Spanish-American Theater: From Page to Stage	3
SOC 386	Special Topics Seminar in Culture and Social Movements (if related to Latin America or Latino Studies)	3	SPA 360	Contemporary Theatre	3
SPA 309	Grammar and Composition	4	SPA 361	Fictions of Mexican Revolution	3
SPA 309L	Grammar and Composition for Heritage Speakers of Spanish	4	SPA 363	Cultural and Social Entrepreneurship: Promotion of Latin American and Latino Societies	3
SPA 310	Anecdotes, Bestsellers, Cuentos. The ABCs of Storytelling in the Spanish-Speaking World	3	SPA 366	Advanced Topics in Literary and Cultural Studies (if related to Latin America or Latino Studies)	3
SPA 311	Bard, Ballad, Bolero. Poetry, and Song in the Spanish-Speaking World	3	SPA 367	Cuban Literature (offered in Havana)	3
SPA 312	Page, Stage, and Performance. Theater and Drama of the Spanish-Speaking World	3	SPA 368	Afro Cuban Cultural Expression (offered in Havana)	3
SPA 313	Lights, Camera, ¡Acción!. Cinema and Culture in the Spanish-Speaking World	3	SPA 369	Special Topics in Literary and Cultural Studies (if related to Latin America or Latino Studies)	1.5-3
SPA 316	Paradise in Perspective: An Interdisciplinary Approach to the Wider Caribbean	3	SPA 379	Special Topics in Hispanic Linguistics (if related to Latin America or Latino Studies)	3
SPA 317	Distant Neighbors: Interdisciplinary Approaches to Mexico and Central America	3	SPA 387	Cultural Industries and Institutions in Spain and Spanish America	3
SPA 318	The Andes to Patagonia: Interdisciplinary Approaches to South American Culture	3	SPA 388	Global Negotiation and Conflict-Management Skills in a Spanish-Speaking Setting	3
SPA 319	Literary and Cultural Studies of Spanish America	3	SPA 390	International Business: Spain and Latin America	3
SPA 322	Spanish pronunciation and Dialect Variation	3	SPA 397	Spanish Independent Study (if related to Latin America or Latino Studies)	1.5
SPA 325	Spanish for Business I	3	SPA 398	Honors Directed Reading and Research (if related to Latin America or Latino Studies)	1.5
SPA 326	International Business: Spain/Latin America	3	SPA 399	Honors Directed Writing (if related to Latin America or Latino Studies)	3
SPA 327	Spanish for Business II	3	WGS 322	Feminist, Womanist, Murjerista Theologies: Constructive Perspectives on Christian Thought	3
SPA 329	Intermediate Topics in Literary and Cultural Studies (if related to Latin America or Latino Studies)	3	WGS 377	Special Topics (if related to Latin America)	1.5-3
SPA 341	Latin American Historical Fiction: Memory, Myth, and Social Justice	3			
SPA 342	From Colonial to Postcolonial Voices	3			
SPA 343	Travel Literature	1.5-3			
SPA 344	The 18th- and 19th-century Periodical Press in Spain and Spanish America	1.5-3			
SPA 345	The Transatlantic Civil War	3			
SPA 346	Transatlantic Transitions: Postdictatorship in Spain and the Southern Cone	3			

\* Suggested for LAS minors who major in political science.

\*\* Students must complete both PTG 111 and PTG 112 to receive 3 hours towards the minor.

## Honors

The honors designation in Latin-American and Latino Studies is a recognition of outstanding scholarship in the area, as evidenced by academic achievement, critical thinking, intellectual initiative and deep familiarity with the culture and peoples of Latin America. To receive honors in Latin-American and Latino Studies highly qualified students must apply and be selected to complete the Chile Honors Semester which will normally be offered in the fall in Santiago, Chile. Students will undertake focused individual research in the country by participating in LAS 380 and pursue other related coursework. Students are required to present the research findings from their honors colloquium independent project upon return to campus. To receive honors in Latin-American and Latino Studies students must also at the time of graduation have a 3.4 GPA or higher in courses pursued for the minor and an overall GPA of 3.2 or higher. Interested students should contact Professor Peter Siavelis in the Politics and International Affairs department, or visit the Center for International Studies website at <http://cis.wfu.edu/>.

## Linguistics (LIN)

Interdisciplinary Minor

The interdisciplinary Linguistics minor offers academic courses across a variety of disciplines. The minor was established in 1993 by faculty from the departments of Anthropology, Classics, Communication, Education, English, French Studies, German-Russian, Humanities, and Spanish and Italian. The minor is currently directed by Professor Jerid Francom who is assisted by a core group of faculty members drawn from various departments across campus.

By nature and approach, linguistics is integrated tightly with the core mission of the University. Linguistics encourages students to analyze data and to “ask why,” to evaluate evidence of various kinds that bears on issues of language acquisition and use, and to see multiple perspectives on problems and evaluate them critically. It is inherently interdisciplinary and stimulates an interconnected perspective, drawing on social sciences, liberal arts, and even physical sciences, as in phonetics (acoustics) and psycholinguistics (neuroscience, imaging techniques); and it is oriented towards the many cultural heritages of the world. It investigates language in all its forms (oral, written, signed) as a distinctive and universal trait of what makes us human — arguably, the field that is most “Pro-Humanitate” of all. And it emphasizes both the diversity of an estimated 6,000 languages and their common core in human cognition and sociocultural functions.

## Contact Information

Linguistics (<http://college.wfu.edu/linguistics/>)

## Programs Minor

- Minor in Linguistics

## Courses Linguistics (LIN)

### LIN 150. Introduction to Linguistics. (3 h)

The social phenomenon of language: how it originated and developed, how it is learned and used, its relationship to other kinds of behavior; types of language (oral, written, signed) and language families; analysis of linguistic data; social issues of language use. Also listed as ANT 150. (CD)

### LIN 310. Sociolinguistics and Dialectology. (3 h)

Study of variation in language: effects of regional background, social class, ethnic group, gender, and setting; social attitudes toward language; outcomes of linguistic conflicts in the community; evolution of research methods for investigating language differences and the diffusion of change. P- LIN 150/ANT 150 or POI.

### LIN 330. Introduction to Psycholinguistics and Language Acquisition. (3 h)

A psychological and linguistic study of the mental processes underlying the acquisition and use of language; how children acquire the structure of language and how adults make use of linguistic systems.

### LIN 333. Language and Gender. (3 h)

Uses an anthropological perspective to examine relationships between language structure, language use, persons, and social categories. Also listed ANT 333.

### LIN 337. TESOL Linguistics. (3 h)

Introduces the theoretical and practical linguistics resources and skills for teaching English to speakers of other languages (TESOL) within the United States or abroad. Also listed as EDU 337. P-LIN 150/ANT 150 or ENG 304 or POI; knowledge of a second language is recommended.

### LIN 340. Special Topics in Linguistics. (3 h)

Interdisciplinary study of selected topics, such as morphology, phonology/phonetics, syntax, historical linguistics, history of linguistic theory, semiotics, and ethnolinguistics, issues in Asian linguistics, language and gender. May be repeated for credit if topic varies. P- LIN 150/ANT 150 or POI.

### LIN 350. Language, Indigeneity and Globalization. (3 h)

Taking a global case-study approach, this seminar explores the role language plays in contemporary identity formation and expression, from indigenous to transnational contexts. Addresses relationships among language and: colonialism, postcolonialism, nationalism, cultural revitalization, standardization, social and economic inequality, boundary-formation, and processes of cultural inclusion and exclusion. Also listed as ANT 350. (CD)

### LIN 351. Comparative Communication. (1.5, 3 h)

A comparison of communicative and linguistic processes in one or more national cultures with those of the United States. Also listed as COM 351. (CD)

**LIN 351A. Comparative Communication Japan. (1.5, 3 h)**

**LIN 351B. Comparative Communication Russia. (1.5, 3 h)**

**LIN 351C. Comparative Communication Great Britain. (1.5, 3 h)**

**LIN 351D. Comparative Communication Multiple Countries. (1.5, 3 h)**

**LIN 351E. Comparative Communication China. (1.5, 3 h)**

**LIN 352. Linguistics Cross-Cultural Communication. (3 h)**

Introduction to the nature of language, communication practices, nonverbal communication, and their cross-cultural variability.

Teaches awareness of and respect for a range of culturally-specific communicative practices and provides analytic skills (linguistics, semiotic, and ethnographic) with which to recognize and assess such practices. This course differs from COM 350 (Intercultural Communication) in its greater emphasis on approaches from linguistics and anthropology. (CD)

**LIN 354. Field Methods in Linguistic Anthropology. (4 h)**

Trains students in basic skills of collecting and analyzing linguistic data at the levels of phonetics-phonology, grammar, lexico-semantics, discourse, and sociocultural context. Students will learn about the research questions that drive linguistic fieldwork as well as the relevant methods, tools and practical and ethical concerns. Also listed as ANT 354. P-ANT 150/LIN 150 or POI.

**LIN 355. Language and Culture. (3 h)**

Covers theoretical and methodological approaches to the study of language and culture, including: semiotics, structuralism, ethnoscience, the ethnography of communication, and sociolinguistics. Topics include: linguistic relativity; grammar and worldview; lexicon and thought; language use and social inequality; language and gender; and other areas. Also listed as ANT 355.

**LIN 375. Philosophy of Language. (3 h)**

A study of such philosophical issues about language as truth and meaning, reference and description, proper names, indexicals, modality, tense, the semantic paradoxes, and the differences between languages and other sorts of sign systems. Also listed as PHI 375. P-POI.

**LIN 380. Language Use and Technology. (3 h)**

Introduction to the fundamental concepts of creating and accessing large linguistic corpora (electronic collections of "real world" text) for linguistic inquiry. Course surveys a variety of cross-discipline efforts that employ corpus data for research and explores current applications. P-POI.

**LIN 383. Language Engineering: Localization and Terminology. (3 h)**

Introduction to the process of making a product linguistically and culturally appropriate to the target locale, and to computer-assisted terminology management. Surveys applications in translation technology. P-POI.

**LIN 398. Individual Study. (1-3 h)**

Designed to meet the needs of selected students, to be carried out under the supervision of a faculty member in the linguistics minor program. P-ANT 150/LIN 150 and POI.

**LIN 399. Individual Study. (1-3 h)**

Designed to meet the needs of selected students, to be carried out under the supervision of a faculty member in the linguistics minor program. P-ANT 150/LIN 150 and POI.

## Faculty

**Director, Associate Professor of Spanish** Irma Alarcón

**Core Faculty:**

**Associate Professor of Anthropology** Margaret Bender

**Associate Professor of French** Stéphanie Pellet

**Associate Professors of Spanish** Diego Burgos, Jerid Francom, Luis González, Tiffany Judy

**Professor of Russian Linguistics** William S. Hamilton

## Linguistics, Minor

### Requirements

The interdisciplinary minor in linguistics requires:

Code	Title	Hours
LIN/ANT 150	Introduction to Linguistics	3
Select 12 additional hours of the following three groups: *		12
Linguistic Courses		
Historical Linguistics		
Related Topics		

\* *It is recommended that at least one course be from historical linguistics.*

Students minoring in linguistics are strongly encouraged to study foreign languages, achieving proficiency in at least one, and social and behavioral sciences. The minor may be usefully combined with a major in a foreign language, English, anthropology (or other social science), philosophy, or communication.

Students intending to minor in linguistics should consult the director, preferably during their sophomore year. Students may choose from the approved list of electives when designing their minor. For course descriptions, see the relevant department's listings in this publication. Additional elective courses may have been approved since publication of this bulletin. The director maintains a complete list of all elective courses that fulfill the minor.

### Linguistic Courses

Code	Title	Hours
LIN 150	Introduction to Linguistics	3
LIN 310	Sociolinguistics and Dialectology	3
LIN 330	Introduction to Psycholinguistics and Language Acquisition	3
LIN 333	Language and Gender	3
LIN 337	TESOL Linguistics	3
LIN 340	Special Topics in Linguistics	3
LIN 350	Language, Indigeneity and Globalization	3
LIN 354	Field Methods in Linguistic Anthropology	4
LIN 375	Philosophy of Language	3
LIN 380	Language Use and Technology	3
LIN 383	Language Engineering: Localization and Terminology	3
LIN 398/399	Individual Study	1-3

### Historical Linguistics

Code	Title	Hours
ENG 304	History of the English Language	3
FRH 341	Rise of French	3
GES 345	History of the German Language	3
RUS 332	The History of Russian Language	3
SPA 370	History of the Spanish Language	3

## Related Topics

Code	Title	Hours
ANT/EDU 353	Language in Education	3
ENG 309	Modern English Grammar	3
ENG 390	The Structure of English	3
FRH 322	French Phonetics	3
FRH 342	Structure of French	3
FRH 343	Modern French	3
FRH 345	Language and Society	3
RUS 330	Structure of Russian	3
SPA 320	Introduction to Hispanic Linguistics	3
SPA 322	Spanish pronunciation and Dialect Variation	3
SPA 371	Contrastive Spanish/English Grammar and Stylistics	3
SPA 379	Special Topics in Hispanic Linguistics	3

## Mathematics and Statistics (MST)

A major in mathematics or in mathematical statistics can be achieved by satisfying the requirements listed for either the bachelor of arts or bachelor of science. Lower division students are urged to consult a member of the departmental faculty before enrolling in courses other than those satisfying Division V requirements.

A minimum grade point average of 2.0 in courses which comprise a major or minor in the department is required for graduation with any major or minor which the department offers. Students may major in the department and minor in statistics, but the only electives that may be counted towards both programs is exactly one of MST 121 or MST 205. Students may not major in the department and minor in mathematics or double-major within the department.

The department regularly schedules activities in mathematics and statistics for students that enhance the course offerings. Examples are:

- participation in the annual Putnam examination
- the COMAP contest in mathematical modeling
- the American Statistical Association DataFest
- data science and hackathon events
- meetings of the mathematics and statistics club
- seminars and courses which build upon the regularly scheduled course offerings
- student research with faculty
- tutoring opportunities

Students who are enrolled at Wake Forest may not take courses in mathematics and statistics at other institutions to satisfy divisional requirements.

## Contact Information

Department of Mathematics & Statistics (<http://college.wfu.edu/math/>)  
 Manchester Hall 127, Box 7388  
 Phone 336-758-5300

## Programs Majors

- B.A. in Mathematics
- B.A. in Mathematical Statistics
- B.S. in Mathematics
- B.S. in Mathematical Statistics
- B.S. in Applied Mathematics
- B.S. in Mathematical Economics
- B.S. in Mathematical Business

## Minors

- Minor in Mathematics
- Minor in Statistics

## Courses Mathematics (MST)

### MST 105. Fundamentals of Algebra and Trigonometry. (1-3 h)

A review of the essentials of algebra and trigonometry. Admission by permission only (generally, a student must have taken fewer than three years of high school mathematics to be eligible for admission). Not to be counted towards any major or minor offered by the department.

### MST 105L. Fundamentals of Algebra and Trigonometry Lab. (1-2 h)

A review of the essentials of algebra and trigonometry in a guided laboratory setting. Admission by permission only. Not to be counted towards any major or minor offered by the department. Pass/Fail only.

### MST 107. Explorations in Mathematics. (4 h)

An introduction to mathematical reasoning and problem solving. Topics vary by instructor and may include one or more of the following: knot theory, Euclidean and non-Euclidean geometry, set theory, cryptography, discrete models, number theory, discrete mathematics, chaos theory, probability, and MAPLE programming. Lab. (D, QR)

### MST 111. Calculus with Analytic Geometry I. (4 h)

Functions, trigonometric functions, limits, continuity, differentiation, applications of derivatives, introduction to integration, the fundamental theorem of calculus. Lab. (D, QR)

### MST 112. Calculus with Analytic Geometry II. (4 h)

Techniques of integration, indeterminate forms, improper integrals, transcendental functions, sequences, Taylor's formula, and infinite series, including power series. Lab. (D, QR)

### MST 113. Multivariable Calculus. (4 h)

The calculus of vector functions, including geometry of Euclidean space, differentiation, extrema, line integrals, multiple integrals, and Green's, Stokes', and divergence theorems.9 Lab. (D, QR)

### MST 117. Discrete Mathematics. (4 h)

Introduction to various topics in discrete mathematics applicable to computer science including sets, relations, Boolean algebra, propositional logic, functions, computability, proof techniques, graph theory, and elementary combinatorics. Lab. (D, QR)

### MST 121. Linear Algebra I. (4 h)

Vectors and vector spaces, linear transformations and matrices, determinants, eigenvalues, and eigenvectors. Credit not allowed for both MST 121 and 205. Credit not allowed for both MST 121 and 206. Lab. (D, QR)

**MST 165. Problem-Solving Seminar. (1 h)**

Weekly seminar designed for students who wish to participate in mathematical competition such as the annual Putnam examination. Not to be counted toward any major or minor offered by the department. May be repeated for credit. Pass/Fail only.

**MST 205. Introduction to Linear Algebra and Differential Equations. (4 h)**

Specific topics covered include: vector algebra, solving linear systems of equations, rank, vector spaces, determinants, eigenvalues, linear transformations, first order differential equations, second order linear ordinary differential equations, and power series solutions to differential equations. Credit not allowed for both MST 205 and MST 251 or for both MST 205 and MST 121 or for both MST 205 and MST 206. P-MST 112 or POI.

**MST 206. Applied Matrix Algebra and Selected Topics. (2 h)**

Matrices, determinants, solutions of linear equations, special matrices, eigenvalues and eigenvectors of matrices. Additional topics will be covered as time permits. Not to be counted toward any major offered by the department except for the major in mathematical business. Credit not allowed for both MST 206 and 121. Credit not allowed for both MST 206 and 205. P-MST 111 or POI.

**MST 214. Multivariable Analysis. (3 h)**

Functions between Euclidean spaces, multivariable limits, differentiation, change of variables, line and surface integrals, vector fields, integration theorems for vector fields, Implicit & Inverse Function Theorems, Contraction Mapping Theorem, applications, other selected topics from analysis in multiple dimensions. P-MST 113 and MST 121, or MST 205.

**MST 225. Linear Algebra II. (3 h)**

A continuation of the study of linear algebra and its applications over the real and complex numbers. Topics may include the spectral theorem, quadratic forms, the singular value decomposition, Gershgorin's circle theorem, analytic functions of matrices, pseudoinverses, and other topics chosen by the instructor. P-MST 112 and 121 or POI.

**MST 243. Codes and Cryptography. (3 h)**

Essential concepts in coding theory and cryptography. Congruences, cryptosystems, public key, Huffman codes, information theory, and other coding methods. P - MST 117 or POI. (D)

**MST 251. Ordinary Differential Equations. (3 h)**

Linear equations with constant coefficients, linear equations with variable coefficients, and existence and uniqueness theorems for first order equations. Credit not allowed for both MST 251 and MST 205. P-MST 112 or POI. (D, QR)

**MST 253. Operations Research. (3 h)**

Mathematical models and optimization techniques. Studies in linear programming, simplex method, duality, sensitivity analysis, and other selected topics. P-MST 111 and MST 121, 205, or 206 or POI. (D, QR)

**MST 254. Optimization Theory. (3 h)**

Unconstrained and constrained optimization problems; Lagrange multiplier methods; second-order sufficient conditions; inequality constraints; and Karush-Kuhn-Tucker conditions. P - MST 113 and 121 or POI.

**MST 283. Topics in Mathematics. (1-3 h)**

Topics in mathematics not considered in regular courses or which continue study begun in regular courses. Content varies.

**MST 306. Advanced Mathematics for the Physical Sciences. (3 h)**

Advanced topics in linear algebra, special functions, integral transforms and partial differential equations. Not to be counted toward any major offered by the department except for the major in mathematical business. P - MST 205 or POI.

**MST 311. Introductory Real Analysis I. (3 h)**

Limits and continuity in metric spaces, sequences and series, differentiation and Riemann-Stieltjes integration, uniform convergence, power series and Fourier series, differentiation of vector functions, implicit and inverse function theorems. P - MST 117 or POI. (D)

**MST 312. Introductory Real Analysis II. (3 h)**

Limits and continuity in metric spaces, sequences and series, differentiation and Riemann-Stieltjes integration, uniform convergence, power series and Fourier series, differentiation of vector functions, implicit and inverse function theorems. P - MST 117 or POI. (D)

**MST 317. Complex Analysis I. (3 h)**

Analytic functions, Cauchy's theorem and its consequences, power series, and residue calculus. P - MST 113 or POI. (D)

**MST 321. Modern Algebra I. (3 h)**

Introduction to modern abstract algebra through the study of groups, rings, integral domains, and fields. P - MST 121 or POI. (D)

**MST 322. Modern Algebra II. (3 h)**

A continuation of modern abstract algebra through the study of additional properties of groups, rings, and fields. P - MST 117 and 321 or POI. (D)

**MST 324. Advanced Linear Algebra. (3 h)**

Thorough treatment of vector spaces and linear transformations over an arbitrary field, canonical forms, inner product spaces, and linear groups. P - MST 121 and 321 or POI. (D)

**MST 326. Numerical Linear Algebra. (3 h)**

Numerical methods for solving matrix and related problems in science and engineering using a high-level matrix-oriented language such as MATLAB. Topics will include systems of linear equations, least squares methods, and eigenvalue computations. Special emphasis given to applications. Also listed as CSC 352. P-MST 112 and MST 121, 205 or 206 or POI. (D)

**MST 331. Geometry. (3 h)**

An introduction to axiomatic geometry including a comparison of Euclidean and non-Euclidean geometries. P - MST 117 or POI. (D)

**MST 333. Introductory Topology. (3 h)**

Topics vary and may include knot theory, topological spaces, homeomorphisms, classification of surfaces, manifolds, Euler characteristic, and the fundamental group. P - MST 117 or POI.

**MST 334. Differential Geometry. (3 h)**

Introduction to the theory of curves and surfaces in two and three dimensional space, including such topics as curvature, geodesics, and minimal surfaces. P - MST 113 or POI. (D)

**MST 345. Elementary Number Theory. (3 h)**

Properties of integers, congruences, and prime numbers, with additional topics chosen from arithmetic functions, primitive roots, quadratic residues, Pythagorean triples, and sums of squares. P-MST 117. (D)

**MST 346. Modern Number Theory. (3 h)**

A selection of number-theory topics of recent interest. Some examples include elliptic curves, partitions, modular forms, the Riemann zeta function, and algebraic number theory. P - MST 117. (D)

**MST 347. Graph Theory. (3 h)**

Paths, circuits, trees, planar graphs, spanning trees, graph coloring, perfect graphs, Ramsey theory, directed graphs, enumeration of graphs, and graph theoretic algorithms. P-MST 117 or POI. (D)

**MST 348. Combinatorial Analysis I. (3 h)**

Enumeration techniques, generating functions, recurrence formulas, the principle of inclusion and exclusion, Polya theory, graph theory, combinatorial algorithms, partially ordered sets, designs, Ramsey theory, symmetric functions, and Schur functions. P - MST 117 or POI. (D)

**MST 349. Combinatorial Analysis II. (3 h)**

Enumeration techniques, generating functions, recurrence formulas, the principle of inclusion and exclusion, Polya theory, graph theory, combinatorial algorithms, partially ordered sets, designs, Ramsey theory, symmetric functions, and Schur functions. P - MST 117 or POI. (D)

**MST 351. Introduction to Mathematical Modeling. (3 h)**

Introduction to the mathematical modeling, analysis and simulation of continuous processes using MATLAB, Mathematics or Maple. Topics include dimensional analysis, stability analysis, bifurcation theory, one-dimensional flows, phase plane analysis, index theory, limit cycles, chaotic dynamics, hyperbolic conservation laws and traveling waves. P-MST 121 and 251 or POI.

**MST 352. Partial Differential Equations. (3 h)**

A detailed study of partial differential equations, including the heat, wave, and Laplace equations, using methods such as separation of variables, characteristics, Green's functions, and the maximum principle. P - MST 113 and 251 or POI. (D)

**MST 353. Probability Models. (3 h)**

Introduction to probability models, Markov chains, Poisson processes and Markov decision processes. Applications will emphasize problems in business and management science. Also listed as STA 353. P-MST 111 and MST 121 or 205 or 206, or POI. (D)

**MST 354. Discrete Dynamical Systems. (3 h)**

Introduction to the theory of discrete dynamical systems as applied to disciplines such as biology and economics. Includes methods for finding explicit solutions, equilibrium and stability analysis, phase plane analysis, analysis of Markov chains, and bifurcation theory. P - MST 112 and 121 or POI. (D)

**MST 355. Introduction to Numerical Methods. (3 h)**

Numerical computations on modern computer architectures; floating point arithmetic and round-off error. Programming in a scientific/engineering language such as MATLAB, C, or FORTRAN. Algorithms and computer techniques for the solution of problems such as roots of functions, approximation, integration, systems of linear equations and least squares methods. Also listed as CSC 355. P-MST 112 and MST 121, 205 or 206, or POI. (D)

**MST 357. Probability. (3 h)**

Probability distributions, mathematical expectation, and sampling distributions. MST 357 covers much of the material on the syllabus for the first Actuarial exam. Also listed as STA 310. P-MST 112 or 205 or POI. (D)

**MST 359. Networks: Models and Analysis. (3 h)**

A course in fundamental network theory concepts, including measures of network structure, community detection, clustering, and network modelling and inference. Topics also draw from recent advances in the analysis of networks and network data, as well as applications in economics, sociology, biology, computer science, and other areas. Also listed as STA 352. P-MST 117 or MST 121 or MST 205 or MST 206 and one course in STA at the 200 level or above. (D)

**MST 381. Individual Study. (1-3 h)**

A course of independent study directed by a faculty adviser. By prearrangement.

**MST 383. Advanced Topics in Mathematics. (1-3 h)**

Topics in mathematics not considered in regular courses or which continue study begun in regular courses. Content varies.

**MST 391. Senior Seminar Preparation. (1 h)**

Independent study or research directed by a faculty advisor by prearrangement with the adviser.

**MST 392. Senior Seminar Presentation. (1 h)**

Preparation of a paper, followed by a one-hour oral presentation based upon work in MST 391.

## Statistics (STA)

**STA 107. Explorations in Statistics. (3 h)**

Introduction to statistical literacy and the role of statistics in settings such as elections, medicine, sports, and the sciences. Topics vary by instructor. (D, QR)

**STA 111. Elementary Probability and Statistics. (4 h)**

Data collection and visualization, exploratory analysis, introductory probability, inference techniques for one variable, and statistical literacy. Lab. (D, QR)

**STA 175. Competitions. (1-3 h)**

Seminar designed for students who wish to participate in statistics and/or data analysis competitions. Not to be counted toward any major or minor offered by the department. May be repeated for credit. Pass/Fail only.

**STA 212. Statistical Models. (3 h)**

A project-oriented course emphasizing data analysis, with introductions to multiple and logistic regression, model selection, design, categorical data, data visualization, and statistical programming. P-A first course in statistics, such as STA 111, ANT 380, BIO 380, BEM 201 or 202, HES 262, PSY 311 or 312, SOC 271, or POI. (D, QR)

**STA 247. Design and Sampling. (3 h)**

Experimental designs, observational studies, survey design and estimation with stratified, cluster, and other sampling schemes. P-STA 111 or STA 212 or POI. (D)

**STA 279. Topics in Statistics. (1-3 h)**

Topics in statistics not considered in regular courses, or which continue study begun in regular courses. Content varies.

**STA 310. Probability. (3 h)**

Distributions of discrete and continuous random variables, sampling distributions. Covers much of the material on the syllabus for the first actuarial exam. Also listed as MST 357. P-MST 112 or POI. (D)

**STA 311. Statistical Inference. (3 h)**

Derivation of point estimators, hypothesis testing, and confidence intervals, using both frequentist and Bayesian approaches. P-STA 310 or MST 357 or POI. (D)

**STA 312. Linear Models. (3 h)**

Theory of estimation and testing in linear models. Topics include least squares and the normal equations, the Gauss-Markov Theorem, testing general linear hypotheses, model selection, and applications. P-MST 121 or 205 or 206, and STA 310 or MST 357. (D)

**STA 352. Networks: Models and Analysis. (3 h)**

A course in fundamental network theory concepts, including measures of network structure, community detection, clustering, and network modelling and inference. Topics also draw from recent advances in the analysis of networks and network data, as well as applications in economics, sociology, biology, computer science, and other areas. Also listed as MST 359. P-MST 117 or MST 121 or MST 205 or MST 206 and one course in STA at the 200 level or above. (D)

**STA 353. Probability Models. (3 h)**

Introduction to probability models, Markov chains, Poisson processes and Markov decision processes. Applications will emphasize problems in business and management science. Also listed as MST 353. P-MST 111, and MST 121 or MST 205 or MST 206. (D)

**STA 362. Multivariate Statistics. (3 h)**

Multivariate and linear methods for classification, visualization, discrimination, and analysis of high dimensional data. P-STA 212 and one of MST 121 or MST 205 or MST 206, or POI. (D)

**STA 363. Introduction to Statistical Learning. (3 h)**

An introduction to supervised learning. Topics may include lasso and ridge regression, splines, generalized additive models, random forests, and support vector machines. P-STA 212 and one of MST 121 or MST 205 or MST 206, or POI, experience with statistical computing. (D)

**STA 364. Computational and Nonparametric Statistics. (3 h)**

Computationally intensive statistical methods. Topics include simulation, Monte Carlo integration and Markov Chain Monte Carlo, sub-sampling, and non-parametric estimation and regression. Students will make extensive use of statistical software throughout the course. P-STA 111 or STA 212, and either STA 310 or MST 357, or POI. (D)

**STA 368. Time Series and Forecasting. (3 h)**

Methods and models for time series processes and autocorrelated data. Topics include model diagnostics, ARMA models, spectral methods, computational considerations, and forecasting error. P-STA 212, and either STA 310 or MST 357, or POI. (D)

**STA 379. Advanced Topics in Statistics. (1-3 h)**

Topics in statistics not considered in regular courses or which continue study begun in regular courses. Content varies.

**STA 381. Applied Statistics Capstone. (2 h)**

Students integrate knowledge acquired throughout their degree program. Topics include developing a research plan, statistical writing, data visualization, and data ethics. Students will communicate statistical results to both technical and non-technical audiences through written reports and oral presentations. Offered fall semester. P-senior STA major.

**STA 383. Individual Study. (1-3 h)**

A course of independent study directed by a faculty adviser. By prearrangement.

**STA 391. Senior Research Capstone I. (1 h)**

Independent study or research directed by a faculty adviser by prearrangement with the adviser.

**STA 392. Senior Research Capstone II. (1 h)**

Preparation of a paper, followed by an oral presentation based upon work completed in STA 391.

## Faculty

**Chair** Sarah Raynor

**Associate Chair** Robert Erhardt

**Wake Forest Taylor Professor** Stephen Robinson

**Professors** Edward Allen, Kenneth Berenhaut, Jennifer Erway Fey, Hugh Howards, Miaohua Jiang, Ellen E. Kirkman, James Norris III, Sarah Raynor

**Professor of the Practice** Jule Connolly

**Sterge Faculty Fellows and Associate Professors** Sarah Mason, Jeremy Rouse

**Associate Professors** Robert Erhardt, W. Frank Moore, R. Jason Parsley

**Sterge Faculty Fellows and Assistant Professors** Abbey Bourdon, John Gemmer

**Assistant Professors** Lucy D'Agostino McGowan, Staci Hepler, John

Holmes, Emily Huang, Sneha Jadhay, Kyongwon Kim

**Assistant Teaching Professor** Justin Allman, Nicole Dalzell, Lynne

Yengulalp

**Visiting Assistant Professors** Guillermo Alesandroni, Duff Baker-Jarvis,

Qing Liu, Rajan Puri

**Teacher-Scholar Postdoctoral Fellows** Kaitlin Hill, Marco Lopez, Katherine

Moore, Mostafa Rezapour, Lori Watson

**Professor Emeritus and Part-time Instructor** Richard Carmichael

## Applied Mathematics, B.S.

### Requirements

The bachelor of science in applied mathematics requires the following:

Code	Title	Hours
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 117	Discrete Mathematics	4
MST 121	Linear Algebra I	4
MST 225	Linear Algebra II	3
MST 251	Ordinary Differential Equations	3
MST 311	Introductory Real Analysis I	3
MST 351	Introduction to Mathematical Modeling	3
MST 326	Numerical Linear Algebra	3
or MST 355	Introduction to Numerical Methods	
MST 357/ STA 310	Probability	3
	Choose one of the following:	3
STA 311	Statistical Inference	
STA 312	Linear Models	
STA 362	Multivariate Statistics	
STA 364	Computational and Nonparametric Statistics	
	Choose 3 additional 3-hour MST or STA courses numbered 200 or above*	9
	Choose one of the following:	
CSC 111	Introduction to Computer Science	4
CSC 112	Fundamentals of Computer Science	4
	Choose one year-long sequence outside of mathematics and statistics chosen from the following:	
	CSC 221 and one CSC course numbered 200 or above	
PHY 113 & PHY 114	General Physics I and General Physics II	
CHM 111 & CHM 280	College Chemistry I and College Chemistry II	
BIO 150 & BIO 160	Biology I and Biology II	
	a sequence approved by the applied mathematics major adviser	

\* excluding MST 205, MST 306, and MST 381

To declare this major, at least three of MST 111, MST 112, MST 113, MST 117, MST 121 and STA 212 must be completed with a grade of at least a C or through AP credit.

## Mathematical Business, B.S.

### Requirements

Students interested in pursuing this joint major must be granted formal admission to the program upon application to the School of Business' Committee on Admissions, Continuation, and Scholarships. To graduate from Wake Forest University with a major in mathematical business, the student must satisfy the requirements for graduation of both the Department of Mathematics and Statistics and the School of Business. This interdisciplinary program, consisting of no more than 51.5 hours, prepares students for careers in business with a strong background in mathematics. The major has the following course requirements:

Code	Title	Hours
<b>Required Major Courses</b>		
MST 113	Multivariable Calculus	4
MST 121	Linear Algebra I	4
MST 253	Operations Research	3
STA 212	Statistical Models	3
MST/STA 353 or STA 310	Probability Models Probability	3
ACC 221	Introductory Management Accounting	3
BEM 211	Organizational Behavior	3
BEM 221	Principles of Marketing	3
BEM 241	Production and Operations Management	3
BEM 251	Management Information Systems	3
BEM 261	Legal Environment of Business	3
BEM 388	Management Simulation	1.5
BEM 392	Seminar in Mathematical Business Analysis	3
FIN 231	Principles of Finance	3
Select a minimum of two additional courses *		6
<b>Prerequisites for Admission</b>		
ACC 111	Introductory Financial Accounting	3
ECN 150	Introduction to Economics	3
MST 112	Calculus with Analytic Geometry II	4
STA 212	Statistical Models	3
<b>Recommended Electives</b>		
BEM 383	Seminar in Negotiations	3
BEM 371 or BEM 372	Strategic Management Strategic Management in Entrepreneurial Firms	3
CSC 111 & CSC 112	Introduction to Computer Science and Fundamentals of Computer Science **	8
STA 362	Multivariate Statistics **	3
STA 363	Introduction to Statistical Learning **	3

\* Chosen from among mathematics, statistics, economics, and business, with at least one being a mathematics or statistics course (chosen from 3-hour courses at the 300-level or higher), excluding MST 381.

\*\* CSC 111 and/or CSC 112 and STA 362 and/or STA 363 are strongly recommended electives for the major.

### Honors

To be graduated with the designation "Honors in Mathematics," "Honors in Applied Mathematics," or "Honors in Mathematical Business," students must satisfactorily complete a senior research paper, and they must have a minimum grade point average of 3.5 in the major and 3.0 in all college coursework. For additional information, members of the departmental faculty should be consulted.

## Mathematical Economics, B.S.

### Requirements

The Department of Mathematics and Statistics and the Department of Economics offer a joint major leading to a bachelor of science degree in mathematical economics. This interdisciplinary program offers the student an opportunity to apply mathematical methods to the development of economic theory, models, and quantitative analysis. The major has the following course requirements:

Code	Title	Hours
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 121	Linear Algebra I	4
MST 254	Optimization Theory	3
ECN 150	Introduction to Economics	3
ECN 210	Intermediate Mathematical Microeconomics	3
ECN 211	Intermediate Mathematical Macroeconomics	3
ECN 215	Econometric Theory and Methods	3
ECN 318	Advanced Topics in Mathematical Economics	3
Select one of the following:		3
MST 354	Discrete Dynamical Systems	
ECN 316	Game Theory	
ECN 317	Market Design	
Select one of the following:		3
ECN 322	Monetary Theory and Policy	
ECN 323	Financial Markets	
ECN 352	International Finance	
ECN 374	Topics in Macroeconomics	
ECN 375	Macroeconomic Models	
Select two additional courses with the approval of the program advisers		6

Students selecting the joint major must receive permission from both the Department of Mathematics and Statistics and the Department of Economics. Prior to declaring the major, students must have a minimum grade B- or AP credit in ECN 150 and MST 112, or else have permission from both the Department of Economics and Department of Mathematics and Statistics. Graduation requirements include a grade of at least a C- in MST 113, MST 121, ECN 210 and ECN 211.



## Honors

Students who have a GPA of at least 3.0 overall and 3.3 in courses in the mathematical economics major and who complete the research course ECN 399 or MST 391 and MST 392 with a minimum grade of B- will be considered by the faculty for the graduation distinction, "Honors in Mathematical Economics."

## Mathematical Statistics, B.A.

### Requirements

Requires:

Code	Title	Hours
MST 112	Calculus with Analytic Geometry II	4
MST 117	Discrete Mathematics	4
MST 121	Linear Algebra I	4
STA 212	Statistical Models	3
STA 310/ MST 357	Probability	3
STA 311	Statistical Inference	3
STA 312	Linear Models	3
Select one of the following:		4
CSC 111	Introduction to Computer Science	
CSC 112	Fundamentals of Computer Science	
Select three additional 3 or 4 hour courses from either MST 113 or STA/MST numbered 200 or above of which at least one must be numbered above 300.*		9-10

\* Excluding MST 205, MST 306, MST 381, and STA 383.

## Honors

To graduate with the designation "Honors in Mathematical Statistics," students must satisfactorily complete STA 391 and STA 392, and they must have a minimum grade point average of 3.5 in the major and 3.0 in all college coursework.

## Mathematical Statistics, B.S.

### Requirements

Requires:

Code	Title	Hours
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 117	Discrete Mathematics	4
MST 121	Linear Algebra I	4
MST 311	Introductory Real Analysis I	3
STA 212	Statistical Models	3
STA 310/ MST 357	Probability	3
STA 311	Statistical Inference	3
STA 312	Linear Models	3
Select one of the following:		
STA 381	Applied Statistics Capstone	2

STA 391 & STA 392	Senior Research Capstone I and Senior Research Capstone II	2
Select one of the following:		4
CSC 111 or CSC 112	Introduction to Computer Science Fundamentals of Computer Science	4
Select at least three additional 3-hour courses in STA or MST numbered 200 or above of which at least one must be numbered above 300 *		9

\* Excluding MST 205, MST 306, MST 381, and STA 383.

## Honors

To graduate with the designation "Honors in Mathematical Statistics," students must satisfactorily complete STA 391 and STA 392, and they must have a minimum grade point average of 3.5 in the major and 3.0 in all college coursework.

## Mathematics, B.A.

### Requirements

Requires:

Code	Title	Hours
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 117	Discrete Mathematics	4
MST 121	Linear Algebra I	4
MST 321	Modern Algebra I	3
Select one of the following:		3
MST 214	Multivariable Analysis	
MST 311	Introductory Real Analysis I	
MST 317	Complex Analysis I	
Select at least four additional 3-hour MST courses numbered higher than 109 or STA courses numbered higher than 111, at most two of which can be from STA. At least two of these electives must be numbered above 300 and at most one of those can be from STA.*		12

\* Excluding MST 205, MST 306, MST 381, STA 381, and STA 383.

## Honors

To be graduated with the designation "Honors in Mathematics," "Honors in Applied Mathematics," or "Honors in Mathematical Business," students must satisfactorily complete a senior research paper, and they must have a minimum grade point average of 3.5 in the major and 3.0 in all college coursework. For additional information, members of the departmental faculty should be consulted.

## Mathematics, B.S.

### Requirements

Requires:

Code	Title	Hours
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 117	Discrete Mathematics	4

MST 121	Linear Algebra I	4
MST 311	Introductory Real Analysis I	3
MST 321	Modern Algebra I	3
MST 391	Senior Seminar Preparation	1
MST 392	Senior Seminar Presentation	1

Select at least six additional 3-hour MST courses numbered higher than 109 or STA courses numbered higher than 111, at most three of which can be from STA. At least three of these electives must be numbered above 300, and at most one of those can be from STA.\*

\* *Excluding MST 205, MST 306, MST 381, STA 381, and STA 383.*

## Honors

To be graduated with the designation "Honors in Mathematics," "Honors in Applied Mathematics," or "Honors in Mathematical Business," students must satisfactorily complete a senior research paper, and they must have a minimum grade point average of 3.5 in the major and 3.0 in all college coursework. For additional information, members of the departmental faculty should be consulted.

## Mathematics, Minor

### Requirements

Requires:

Code	Title	Hours
MST 112	Calculus with Analytic Geometry II	4
MST 113 or MST 121	Multivariable Calculus Linear Algebra I	4

Select four other MST or STA courses of at least 3 hours each  
\*

\* *Numbered higher than MST 105, two of which must be numbered above 200. Credit is allowed for either MST 107 or STA 111, but not both.*

## Statistics, Minor

### Requirements

Requires:

Code	Title	Hours
STA 212	Statistical Models	3
STA 362 or STA 363	Multivariate Statistics Introduction to Statistical Learning	3

Select four electives from amongst STA 111-379 (Excluding STA 175) or the following courses: \*

MST 117	Discrete Mathematics	
MST 121	Linear Algebra I	
MST 205	Introduction to Linear Algebra and Differential Equations	
ANT 380	Anthropological Statistics	
BIO 380	Biostatistics	
BEM 202	Quantitative Analysis II	
BEM 324	Marketing Research	
BEM 329	Marketing Analytics	

COM 220	Empirical Research in Communication
ECN 209	Applied Econometrics
ECN 215	Econometric Theory and Methods
FIN 203	Applied Quantitative Analysis for Finance
HES 262	Statistics in the Health Sciences
HES 360	Epidemiology
POL 280	Research Methods
PSY 310	Methods in Psychological Research
PSY 311	Research Methods I
PSY 312	Research Methods II
SOC 271	Social Statistics

\* *At least one elective must be in STA and numbered higher than STA 212. At most two courses outside of STA and MST may count towards the statistics minor.*

Students are responsible for satisfying prerequisites for all courses selected for the statistics minor.

## Medieval and Early Modern Studies

Interdisciplinary Minor

Medieval and Early Modern studies involve faculty from various departments at Wake Forest University, among them English, history, art history, classics, romance languages, German, philosophy, music and religion. The program integrates practices of thinking across periods, cultures, territories, and disciplines, even as Medieval Studies at Wake Forest continues to emphasize the importance of intensive training in disciplinary knowledge and practice. One of the greatest values of our program is that it is one of the central places at Wake Forest University where students experience interdisciplinarity. In fact, this program has been an inspiration to and model for other developing programs. Among areas of study in the humanities, medieval and early modern cultures are perhaps most naturally cross-disciplinary.

What we think of as modern culture and modern institutions were founded in the Middle Ages. The study of the Middle Ages offers us the opportunity to examine the formation of western civilization and literature in the aftermath of the fall of Rome. Early Modern studies enables us to trace the transformation of late medieval society and culture into an entirely new epoch, the Renaissance, which was an extremely innovative period that reconfigured all the disciplines and set the stage for developments in modern science, politics, economics, social organization, and the arts.. This program brings medieval and early modern studies into an ever more complex, inter-dependent, and internationalized twenty-first century, emphasizing the interrelationship of culture, ideas, technologies, religions, and movements across periods of time and geography.

## Contact Information

Medieval and Early Modern Studies (<http://college.wfu.edu/medievalstudies/>)  
Kirby Hall 313  
Phone 336-758-4497

## Programs

### Minor

- Minor in Medieval and Early Modern Studies

## Faculty

Coordinator, Reynolds Professor of English Herman Rapaport

## Medieval and Early Modern Studies, Minor

### Requirements

The interdisciplinary minor in medieval and early modern studies requires 18 hours, chosen from at least three different departments. Courses from the student's major may count in the minor. Students have the opportunity to attend the six-week Summer Medieval Program at Oxford University in England, for which they receive 4.5 hours (two courses) which count toward the minor. (For details about application to the Oxford program, and possible financial aid, consult Gale Sigal in the English department.)

Courses may be chosen from the following list. Additional elective courses may have been approved since publication of this bulletin. The program coordinator maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this publication.

### Electives for Medieval and Early Modern Studies

Code	Title	Hours
ART 252	Romanesque Art and Architecture	3
ART 253	The Gothic Cathedral	3
ART 254	Luxury Arts in the Middle Ages	3
ART 267	Early Italian Renaissance Art	3
ART 268	16th Century Art in Italy: Magnificence and Reform	3
ART 269	Venetian Renaissance Art	3
ART 270	Northern Renaissance Art	3
ART 272	17th-Century European Art: Politics, Power and Patronage	3
ART 274	17th-Century Dutch Painting	3
ART 396	Art History Seminar (when topic is on Medieval and Byzantine art)	4
ENG 305	Old English Language and Literature	3
ENG 308	Beowulf	3
ENG 310	The Medieval World	3
ENG 311	The Legend of Arthur	3
ENG 312	Medieval Poetry	3
ENG 313	Roots of Song	3
ENG 315	Chaucer	3
ENG 320	British Drama to 1642	3
ENG 323	Shakespeare	3
ENG 325	16th-Century British Literature	3
ENG 326	Studies in English Renaissance Literature	3

ENG 327	Milton	3
ENG 328	17th-Century British Literature	3
FRH 370	Seminar in French and Francophone Studies (periodically offered in medieval studies)	3
GER 380	German Literature before 1700	3
GES 345	History of the German Language	3
GES 391	Germanic Myths and Monsters	3
HST 119	Venice and the World	3
HST 206	The Early Middle Ages	3
HST 207	The High Middle Ages Through the Renaissance	3
HST 209	Europe: From Renaissance to Revolution	3
HST 217	France to 1774	3
HST 223	The British Isles to 1750	3
HST 242	Middle East before 1500	3
HST 311	Special Topics in History (when topic is medieval)	3
HON 310	The Medieval World: Special Topics	3
HMN 225	Literature, Travel, and Discovery (when topic is medieval)	3
ITA 329	Love, Gender, and Diversity in Italian Epic	3
ITA 340	Traveling with Muhammad and Dante	3
ITA 342	Boccaccio's Decameron or "Sex in the City": Rethinking Community in Medieval Florence	3
LAT 120	Reading Medieval Latin	1.5-3
PHI 237	Medieval Philosophy	3
REL 368	Protestant and Catholic Reformations	3
REL 372	History of Christian Thought	3
SPA 330	The Debate about Woman in Late Medieval Spain	3
SPA 331	Medieval Spain: A Cultural and Literary Perspective	3
SPA 332	The Golden Age of Spain	3
SPA 333	The Spain of Don Quijote	3
SPA 341	Latin American Historical Fiction: Memory, Myth, and Social Justice	3
THE 310	History of Western Theatre I (Beginnings to 1642)	3

Students intending to minor in medieval studies should consult the coordinator, preferably during the sophomore year.

## Middle East and South Asia Studies

### Interdisciplinary Minor

The Middle East and South Asia Studies Program began as an interdisciplinary minor in 2004. Since that time, the Program has grown rapidly to include twenty-three faculty members distributed across ten departments of the college and the Divinity School and to graduate around 25 students each year. The Program also administers summer study abroad programs in Morocco, India, Nepal, Indonesia, and Egypt and mentors students' study abroad experiences and overseas research across the region. Intended as an interdisciplinary space for faculty and students with an academic interest across region that encompasses

the Middle East and South Asia, the Program regularly sponsors guest lectures, film series, workshops, and international conferences on the campus of Wake Forest University.

The Middle East and South Asia Studies Program maintains institutional affiliations with the American Institute for Maghribi Studies (AIMS), the American Institute of Pakistan Studies (AIPS), the American Institute of Indian Studies (AIIS), and the American Institute for Sri Lankan Studies (AISLS).

## Contact Information

Middle East and South Asia Studies Program (<http://college.wfu.edu/mesasprogram/>)

## Programs

### Minors

- Minor in Arabic
- Minor in Middle East and South Asia Studies

## Courses

### Arabic (ARB)

#### ARB 111. Elementary Arabic I. (3 h)

The first semester of a two-semester course designed for students with no or very limited knowledge of the language. Introduction to Arabic sounds and script as well as basic grammar, with oral and written drills and reading of simple texts. Focus is on laying the foundation for reading, writing, listening, and speaking skills in Modern Standard Arabic.

#### ARB 112. Elementary Arabic II. (3 h)

The second semester of a two-semester course designed for students with no or very limited knowledge of the language. Mastery of Arabic sounds and script is assumed. Building of vocabulary and grammar through oral and written drills and reading of simple texts. Focus is on developing proficiency in reading, writing, listening, and speaking skills in Modern Standard Arabic. P-ARB 111.

#### ARB 153. Intermediate Arabic I. (4 h)

Review of grammar and focus on the acquisition of more complex grammatical structures, vocabulary building, and expansion of reading, writing, listening, and speaking skills in Modern Standard Arabic. P-ARB 112.

#### ARB 201. Intermediate Arabic II. (3 h)

Further building of vocabulary and grammar and expansion of reading, writing, listening, and speaking skills in Modern Standard Arabic. P-ARB 153.

#### ARB 218. Standard Arabic Conversation I. (3 h)

A language course based on cultural material intended to develop students' aural skills and oral proficiency in Modern Standard Arabic by increasing vocabulary and reinforcing command of grammar. P-ARB 153.

#### ARB 219. Standard Arabic Conversation II. (3 h)

A continuation of ARB 218. P-ARB 218 or POI.

#### ARB 221. Colloquial Arabic Conversation I. (3 h)

Focus on a particular regional dialect of Arabic (e.g., Egyptian, Levantine, Iraqi, Gulf, or North African) to give students the listening and speaking skills necessary to communicate in everyday language in informal situations. Designed for students with no knowledge of the particular dialect being taught. Course may be repeated for credit for a different Arabic dialect. P-ARB 153 or POI.

#### ARB 222. Colloquial Arabic Conversation II. (3 h)

A continuation of ARB 221. Designed for students with elementary knowledge of the dialect being taught. Course may be repeated for credit for a different Arabic dialect. P-ARB 221 in the same dialect or POI.

#### ARB 230. Upper Intermediate Arabic I. (3 h)

With an emphasis on speaking and writing, this course will develop students' oral and written proficiency on an upper intermediate level of fluency. P-ARB 201.

#### ARB 231. Upper Intermediate Arabic II. (3 h)

A continuation of ARB 230. P-ARB 230.

#### ARB 288. Individual Study in Arabic Language or Cultural Studies. (1-3 h)

Course may be repeated for a total of 6 credit hours. P-POI.

#### ARB 301. Advanced Arabic I. (3 h)

This course will develop students' oral, written, and reading proficiency on an advanced level of fluency. P-ARB 231.

#### ARB 302. Advanced Arabic II. (3 h)

A continuation of ARB 301. P-ARB 301.

#### ARB 305. Special Topics in Arabic. (1-3 h)

Arabic language study with a particular limited focus, e.g., Quranic Arabic, composition, grammar, novels. May be repeated for credit if topic varies. P-ARB 153, 201, or POI depending on the topic.

#### ARB 306. Special Topics in Arabic Studies. (3 h)

Course in English offering in-depth study of particular aspects of Arabic language, literature or culture not included in the regular course offerings. May be repeated for credit when topics vary.

#### ARB 324. Introduction to Arabic Literature. (3 h)

Reading of selected texts in Arabic, ranging from pre-Islamic poetry to the Quran and Prophetic Hadiths to medieval fiction, nonfiction works like biographies and travel literature, and modern short stories, for the purpose of building vocabulary and reading skills, expanding knowledge of grammatical structures and literary genres, and deepening cultural understanding. P-ARB 231 or equivalent.

#### ARB 325. Multimedia Arabic. (3 h)

With a focus on current affairs in the Middle East and the Arabic-speaking world, students will read, listen to, and view authentic materials from various print and electronic media in Arabic. P-ARB 231.

#### ARB 350. Classical Arab-Islamic Civilization through Literature. (3 h)

Examines how Arabs and Muslims in classical and medieval times (600-1400 A.D.) approached the pleasures of worldly life, organized their social domain by ethics/law, constructed their worldview through religion, reacted to nature by science, and attempted to resolve their cultural inconsistencies through theology, philosophy, and mysticism. Also listed as HMN 350. (CD, D)

#### ARB 351. Modern Arab World through Literature. (3 h)

Study of the global significance of the 330 million Arabs as the fourth largest community in the world and Arabic as the fifth most widely spoken language from a historical and thematic perspective (1400 A.D. to the present) through literary selections covering the periods of premodernity, Arab renaissance, colonialism, state-building, and globalization. Also listed as ARB 351. (CD, D)

## Hindi-Urdu (HNU)

#### HNU 111. Elementary Hindi-Urdu I. (3 h)

Introduction to modern Hindi-Urdu. Designed for students with no knowledge of the language. Focus is on developing reading, writing, and conversation skills for practical contexts. Instruction in the Devanagari and Nastaliq scripts and the cultures of Indian and Pakistan. Fall only.

**HNU 112. Elementary Hindi-Urdu II. (3 h)**

Continued instruction in modern Hindi-Urdu. Students with previous background may place into this course with the instructor's permission. Focus is on developing reading, writing, and conversation skills for practical contexts. Instruction in the Devanagari and Nastaliq scripts and the cultures of India and Pakistan. Spring only. P-HNU 111.

**HNU 140. Introduction to the Hindi script (Devanagari). (1 h)**

Introduction to the Devanagari writing system used in Hindi, as well as other South Asian languages, including Nepali and Sanskrit. Includes an overview of the Hindi-Urdu sound system and language. Students with prior proficiency in spoken Hindi or Urdu may complete this course in preparation for entering Intermediate Hindi-Urdu (HNU 153 and 201).

**HNU 141. Introduction to the Urdu script (Nastaliq). (1 h)**

Introduction to the Nastaliq writing system used in Urdu, as well as Persian, Punjabi, and Kashmiri. Includes an overview of the Hindi-Urdu sound system and language. Students with prior proficiency in spoken Hindi or Urdu may complete this course in preparation for entering Intermediate Hindi-Urdu (HNU 153 and 201).

**HNU 153. Intermediate Hindi-Urdu I. (3 h)**

Second year of modern Hindi-Urdu. Students with comparable proficiency may place into this course with the instructor's permission. Focus is on building oral and written communication skills in a range of contexts. Exploration of the cultures of India and Pakistan through discussions of authentic materials. Instruction in Devanagari and Nastaliq scripts. Fall only. P-HNU 112.

**HNU 201. Intermediate Hindi-Urdu II. (3 h)**

Continued intermediate instruction in spoken and written Hindi-Urdu. Students with previous background may place into this course with the instructor's permission. Focus is on building oral and written communication skills in a range of contexts. Exploration of the cultures of India and Pakistan through discussions of authentic materials. Instruction in Devanagari and Nastaliq scripts. Spring only. P-HNU 153.

**HNU 287. Special Topics in Hindi-Urdu Language or Cultural Studies. (1-3 h)**

Selected themes and approaches to Hindi-Urdu language, culture, literature, drama, and/or film. May be repeated for credit when topic varies.

**HNU 288. Individual Study in Hindi-Urdu Language or Cultural Studies. (1-3 h)**

Course may be repeated for a total of 6 credit hours. P-POI.

**Middle East and South Asia Studies (MES)****MES 110. Introductory Topics in Middle East and South Asia Studies. (1-3 h)**

Introductory level course on selected topics in Middle East and South Asia Studies. May be repeated for credit if course content differs. (CD)

**MES 210. Intermediate Topics in Middle East and South Asia Studies. (1-3 h)**

Intermediate level course on selected topics in Middle East and South Asia Studies. May be repeated for credit if course content differs. (CD)

**MES 310. Advanced Topics in Middle East and South Asia Studies. (1-3 h)**

Advanced level course in selected topics in Middle East and South Asia Studies. May be repeated for credit if course content differs. (CD)

**MES 390. Individual Study. (1-3 h)**

Designed to meet the needs and interests of selected students who have declared the minor. Carried out under the supervision of a faculty member affiliated with the Middle East and South Asia Studies program. P-POI.

**Faculty****Program Co-Director and Professor of Politics and International Affairs**

Charles H. Kennedy

**Program Co-Director and Associate Professor of History** Raisur Rahman

**Program Co-Director and Associate Professor of History** Charles Wilkins

**Teaching Professor of Arabic** Darlene R. May

**Assistant Professor of Arabic** A.Z. Obiedat

**Postdoctoral Fellow in Hindi-Urdu** Peter Knapczyk

**Arabic, Minor****Requirements**

Requires 12 hours above ARB 153. Must include at least one of the following core courses: ARB 201, ARB 230, ARB 231, ARB 301, ARB 302.

May include either English-language content course (ARB 350 or ARB 351) but not both. Study abroad is highly recommended but not required. Students must achieve a GPA of at least 2.0 in the minor.

**Middle East and South Asia Studies, Minor****Requirements**

The Middle East and South Asia Studies minor provides students with an opportunity to engage in a multidisciplinary study of the history, politics, literature, peoples, and cultures of the Middle East and South Asia. To fulfill the minor, students must complete 18 hours from an approved list of courses. Students may count no more than 10 hours from any of the foreign language offerings toward the minor. Additional elective courses may have been approved since publication of this bulletin. The program's co-directors maintain a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this publication. Some courses relevant to the minor are not taught on a regular basis; others are offered by visiting or temporary faculty.

**Electives for Middle East and South Asia Studies**

Code	Title	Hours
ANT 334	People and Cultures of South Asia	3
ANT 383 & ANT 384	Field program in Cultural Anthropology and Field Program in Cultural Anthropology (when topic is appropriate)	6
ANT 385 & ANT 386	Special Problems Seminar and Special Problems Seminar (when topic is appropriate)	6
ARB 111 & ARB 112	Elementary Arabic I and Elementary Arabic II	6
ARB 153	Intermediate Arabic I	4
ARB 201	Intermediate Arabic II	3
ARB 218 & ARB 219	Standard Arabic Conversation I and Standard Arabic Conversation II	6

ARB 221 & ARB 222	Colloquial Arabic Conversation I and Colloquial Arabic Conversation II	6	HST 334	Mystics, Monarchs, and Masses in South Asian Islam	3
ARB 230 & ARB 231	Upper Intermediate Arabic I and Upper Intermediate Arabic II	6	HST 335	Hindus and Muslims in India, Pakistan, and Beyond	3
ARB 288	Individual Study in Arabic Language or Cultural Studies	1.5-3	HST 343	The Silk Roads	3
ARB 301 & ARB 302	Advanced Arabic I and Advanced Arabic II	6	HST 385	History through Film: Bollywood and the Making of Modern India	3
ARB 305	Special Topics in Arabic	3	HST 387	The Last Great Muslim Empires	3
ARB 324	Introduction to Arabic Literature	3	HST 388	Nation, Faith, and Gender in the Middle East	3
ARB 325	Multimedia Arabic	3	HST 389	The British Empire in the Middle East	3
ARB 350	Classical Arab-Islamic Civilization through Literature	3	HST 390	Research Seminar (when topic is appropriate)	4
ARB 351	Modern Arab World through Literature	3	HST 398	Individual Study (when topic is appropriate)	1-3
ART 104	Topics in World Art (when topic is appropriate)	3	HST 399	Directed Reading (when topic is appropriate)	1-3
ART 203	Islamic Art and Architecture	3	MUS 109	Introduction to the Music of World Cultures (when topic is appropriate)	3
ART 204	South Asian Art and Architecture	3	or MUS 209	Music of World Cultures	
ART 205	The Architecture of Devotion in South Asia	3	MUS 117	Gamelan Ensemble	1
ART 206	Art and Empire: India and Europe, 1500-1900	3	MUS 134	Music of Asia	6
ART 207	Building Empire: Early Modern Islamic Architecture	3	& MUS 234	and Music of Asia	
ART 208	Ottoman Art and Architecture	3	NLL 111	Elementary Hebrew	6
ART 286	Topics in Art and Architectural History (when topic is appropriate)	3	& NLL 112	and Elementary Hebrew	
ART 351	Topics in Gender and Art (when topic is appropriate)	3	NLL 153	Intermediate Hebrew	3
ART 396	Art History Seminar (when topic is appropriate)	4	NLL 211	Hebrew Literature	6
COM 370	Special Topics (when topic is appropriate)	3	& NLL 212	and Hebrew Literature II	
ENG 358	Postcolonial Literature	3	NLL 213	Studies in Modern Hebrew	3
ENG 359	Studies in Postcolonial Literature	3	NLL 301	Introduction to Semitic Languages	3
HNU 111 & HNU 112	Elementary Hindi-Urdu I and Elementary Hindi-Urdu II	6	NLL 302	Akkadian I	6
HNU 140	Introduction to the Hindi script (Devanagari)	1	& NLL 303	and Akkadian II	
HNU 141	Introduction to the Urdu script (Nastaliq)	1	NLL 310	Intermediate Readings in Classical Hebrew	1
HNU 153 & HNU 201	Intermediate Hindi-Urdu I and Intermediate Hindi-Urdu II	6	NLL 311	Aramaic	3
HNU 287	Special Topics in Hindi-Urdu Language or Cultural Studies	1-3	NLL 321	Introduction to Middle Egyptian I	6
HNU 288	Individual Study in Hindi-Urdu Language or Cultural Studies	1-3	& NLL 322	and Introduction to Middle Egyptian II	
HST 107	Middle East & the World	3	POL 241	Contemporary India	3
HST 109	Asia and the World	3	POL 242	Topics in Comparative Politics (when topic is appropriate)	3
HST 242	Middle East before 1500	3	POL 246	Politics and Policies in South Asia	3
HST 243	Middle East since 1500	3	POL 247	Islam and Politics	3
HST 250	Premodern South Asia	3	POL 250	Afghanistan, Pakistan, Iraq and U.S. Policy since 2001	3
HST 251	Modern South Asia	3	POL 251	Politics of Forced Migration	3
HST 305	Medieval & Early Modern Iberia	3	POL 252	Topics in International Politics (when topic is appropriate)	3
HST 311	Special Topics in History (when topic is appropriate)	3	POL 255	Terrorism and Asymmetric Conflict	3
HST 321	Zionism, Palestine, and Israel in Historical Perspective	3	POL 257	Politics of International Development	3
			POL 259	Palestine and the Arab-Israeli Conflict	3
			POL 263	U.S. Foreign Policy in the Middle East	3
			POL 269	Topics in Political Theory (when topic is appropriate)	3
			POL 274	Arab and Islamic Political Thought	3
			POL 278	Politics and Identity	3
			POL 282	Gandhi	3

POL 286	Topics in Political Science (when topic is appropriate)	3
POL 287	Individual Study (when topic is appropriate)	3
POL 288	Directed Reading (when topic is appropriate)	3
POL 300	Senior Seminar in Political Science (when topic is appropriate)	4
REL 104A	Introduction to Asian Religions	3
REL 104B	Introduction to South Asian Religions	3
REL 105	Monotheisms: Judaism, Christianity, and Islam	3
REL 108	Introduction to Hindu Traditions	3
REL 109	Introduction to Buddhist Traditions	3
REL 110	Introduction to Islamic Traditions	3
REL 113	Introduction to Jewish Traditions	3
REL 286 & REL 287	Directed Reading and Directed Reading (when topic is appropriate)	4
REL 312	The Critical Study of the Pentateuch	3
REL 313	Near Eastern Archeology	3
REL 355	Jewish Identities: Religion, Race, and Rights	3
REL 356	Faces of Modern Judaism	3
REL 362	Topics in Islam	3
REL 383	The Quran and the Prophet	3
REL 384	Islam and Law: Varieties in Interpretation and Expression	3
REL 385	Topics in South Asian Religions	3
REL 386	Indian Epics	3
REL 387	Priests, Warriors and Ascetics in Ancient India	3
REL 388	South Asian Women: Religion, Culture and Politics	3
REL 389	Islam in the West: Changes and Challenges	3
REL 390	Special Topics in Religion (when topic is appropriate)	3
WGS 377	Special Topics (when topic is appropriate)	3

## Honors

The honors designation in Middle East and South Asia Studies is a recognition of outstanding scholarship in the area, as evidenced by academic achievement, intellectual initiative and deep familiarity with the culture and peoples of the Middle East and South Asia. To receive honors in Middle East and South Asia Studies, highly qualified students must undertake focused individual research in some aspect of Middle East and/or South Asia studies or study abroad in at least one country in the region. Students are required to provide an oral presentation of their research findings or of their critical analysis of their study abroad experience at the spring honors colloquium that follows their return to campus. To receive honors in Middle East and South Asia Studies student must at the time of graduation have both a 3.6 GPA or higher in courses pursued for the minor and an overall GPA of 3.2 or higher. Interested students should contact one of the program directors for advising. An application can be found here (<https://mesas.wfu.edu/wp-content/uploads/2020/01/MESA-Honors-Form.pdf>).

## Military Science (MIL)

### Army

Completion of Army Reserve Officers' Training Corps (AROTC) requirements and recommendation for appointment by the Professor of Military Science may result in commissioning as a second lieutenant in the active or reserve force components of the Army of the United States, as determined by the Secretary of the Army.

The AROTC program is composed of the basic course and the advanced course.

Code	Title	Hours
<b>Basic Course</b>		
MIL 121	Leadership and Personal Development (MSL 101) *	3
MIL 122	Introduction to Tactical Leadership (MSL 102)	3
MIL 123	Innovative Team Leadership (MSL 201) *	3
MIL 124	Foundations of Tactical Leadership (MSL 202)	3
May also be completed, partially or fully, by three alternative methods:		
Previous attendance of military initial entry training		
A six-week long Cadet Initial Entry Training (CIET)		
Constructive credit for other military service determined appropriate by the professor of military science		
<b>Advanced Course</b>		
MIL 225	Adaptive Team Leadership (MSL 301)	3
MIL 226	Leadership in Changing Environments (MSL 302)	3
MIL 227	Adaptive Leadership (MSL 401)	3
MIL 228	Leadership in a Complex World (MSL 402)	3
MIL 119	Advanced Leadership Lab **	1
MIL 120	Advanced Leadership Lab **	1

\* Students may take MIL 121 or MIL 123 without taking MIL 117 or MIL 118 if they are not currently receiving an ROTC scholarship. If they intend to pursue a scholarship or contract, participation is encouraged.

\*\* Required for all advanced courses.

### Basic Course

No military obligation is incurred by enrollment in the basic course, except by Army ROTC Scholarship cadets.

### Advanced Course

Enrollment in the advanced AROTC courses is only for students who have signed a service obligation which they will fulfill after graduation with the United States Army, Army Reserve, or Army National Guard, and they must also attend the five-week Advanced Camp, usually attended during the summer between the junior and senior years. Army ROTC scholarships are available to qualified applicants (both those already enrolled in the AROTC program and those not yet enrolled) through annual competition.

## Air Force

In addition to AROTC, students may participate in the Air Force Reserve Officer Training Corps (AFROTC) Program through North Carolina A&T State University in Greensboro in order to receive a commission as an active duty second lieutenant in the U.S. Air Force (USAF). The department offers a four-year program where students enroll at the beginning of their freshman year and continue through award of a bachelor's degree. The four-year program can be modified for students up until the beginning of the spring semester of a student's sophomore year.

Freshmen or sophomore students attend a 1-hour class and a 2-hour leadership laboratory each week in addition to two 1-hour physical training sessions. Students who compete favorably for the award of an Enrollment Allocation will attend a four-week summer field training program at Maxwell Air Force Base, AL. During the junior and senior years, students attend 3 hours of class, a 2-hour leadership laboratory, and two 1-hour physical training sessions.

For more information on the AFROTC Program, contact any instructor or the Unit Admissions Officer in the Department of Aerospace Studies, Campbell Hall, North Carolina A&T State University, telephone (336.334.7707). For course offerings visit [www.ncat.edu/~afrotc](http://www.ncat.edu/~afrotc).

## Contact Information

Department of Military Science (<http://college.wfu.edu/ROTC/>)  
Phone 336-758-5545

## Courses

### Military Science (MIL)

#### **MIL 114. Leadership. (1.5 h)**

An examination of the fundamentals contributing to the development of a personal style of leadership with emphasis on the dimensions of junior executive management.

#### **MIL 117. Leadership Laboratory. (0 h)**

Basic military skills instruction designed to technically and tactically qualify the student for assumption of an officer leadership position at the small-unit level. Students learn the skills necessary to operate in a military environment and practical application of the basic leadership tenant. Focus is on teamwork, communication skills and application of basic military principles. Either Military Science 117 (fall) or 118 (spring) is required each semester for contracted AROTC cadets (including those conditionally contracted), advance designee scholarship winners.

#### **MIL 118. Leadership Laboratory. (0 h)**

Basic military skills instruction designed to technically and tactically qualify the student for assumption of an officer leadership position at the small-unit level. Students learn the skills necessary to operate in a military environment and practical application of the basic leadership tenant. Focus is on teamwork, communication skills and application of basic military principles. Either Military Science 117 (fall) or 118 (spring) is required each semester for contracted AROTC cadets (including those conditionally contracted), advance designee scholarship winners.

#### **MIL 119. Advanced Leadership Lab. (1 h)**

Focuses on practical application of time management, small unit organization, communication, and other leadership concepts learned in class to accomplish assigned missions. Laboratory sessions can be tactical (conducting a small unit mission) or managerial (solving an organizational problem). Grading is based on performance in leadership positions, teamwork, and application of principles from class instruction. MIL 227 and 228 cadets are required to plan training scenarios conducted at lab, supervise sessions, and build teams and future leaders through assessment and feedback. MIL 225 and 226 cadets will conduct training and be evaluated on their application of tactical and managerial skills learned in military science classes to solve problems or complete tactical missions. MIL 119 and 120 may be repeated once for credit.

#### **MIL 120. Advanced Leadership Lab. (1 h)**

Focuses on practical application of time management, small unit organization, communication, and other leadership concepts learned in class to accomplish assigned missions. Laboratory sessions can be tactical (conducting a small unit mission) or managerial (solving an organizational problem). Grading is based on performance in leadership positions, teamwork, and application of principles from class instruction. MIL 227 and 228 cadets are required to plan training scenarios conducted at lab, supervise sessions, and build teams and future leaders through assessment and feedback. MIL 225 and 226 cadets will conduct training and be evaluated on their application of tactical and managerial skills learned in military science classes to solve problems or complete tactical missions. MIL 119 and 120 may be repeated once for credit.

#### **MIL 121. Leadership and Personal Development (MSL 101). (3 h)**

Introduction to the skills critical for effective leadership included effective communication, teamwork, ethics, and cultural awareness. Cadets learn how the personal development of life skills such as critical thinking, goal setting, time management, physical fitness, and stress management relate to leadership, Officership, and the Army profession.

#### **MIL 122. Introduction to Tactical Leadership (MSL 102). (3 h)**

Introduction to army terms, philosophies, and basic leadership concepts. Builds individual skills and knowledge applicable to Army operations, both tactical and organizational, in order to develop students into exceptional leaders.

#### **MIL 123. Innovative Team Leadership (MSL 201). (3 h)**

Explores the dimensions of creative and innovative leadership strategies and styles by developing an understanding of team dynamics an assessment of personal leadership traits in order to develop team leadership capabilities. Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs.

#### **MIL 124. Foundations of Tactical Leadership (MSL 202). (3 h)**

Examines the challenges of leading tactical teams in the complex contemporary operating environment (COE). Highlights dimensions of terrain analysis, patrolling, and operation orders, cultural considerations, unit dynamics, interaction with the media and care for subordinate's physical and mental well-being. Places lessons learned from MIL 124 on the Army leadership framework and the dynamics of adaptive leadership in the context of military operations to prepare cadets for leadership roles as they enter the advanced courses.



**MIL 225. Adaptive Team Leadership (MSL 301). (3 h)**

Challenges cadets to study, practice, and evaluate adaptive leadership skills as they are presented with challenging scenarios related to squad tactical operations. Cadets receive systematic and specific feedback on their leadership attributes and actions. Based on such feedback, as well as their own self-evaluations, cadets continue to develop their leadership and critical thinking abilities. The focus is developing cadets' tactical leadership abilities to enable them to succeed at ROTC's summer Advanced Camp. P - MIL 121 through MIL 124 (or equivalent credit as determined by the professor of military science).

**MIL 226. Leadership in Changing Environments (MSL 302). (3 h)**

Uses increasingly challenging leadership opportunities to build cadet confidence and skills in leading tactical and garrison operations up to platoon level. Cadets review aspects of the range of Army operations and specifics of different functional areas within the Army. They also conduct military briefings and develop proficiency in garrison operation orders. Focus is on exploring, evaluating, and developing skills in decision-making, persuading, and motivating team members in the contemporary operating environment. Cadets are evaluated on what they know and do as leaders as they prepare to attend the ROTC summer Advanced Camp. P - MIL 121 through MIL 225 (or equivalent credit as determined by the professor of military science)

**MIL 227. Adaptive Leadership (MSL 401). (3 h)**

This course transitions the focus of from being trained, mentored and evaluated as a cadet to learning how to train, mentor and evaluate underclass cadets. Cadets will learn the duties and responsibilities of an Army staff officer and apply the Military Decision Making Process, Army writing style and the Army's principles of training and training management. Cadets will learn about the special trust proposed by the U.S. Constitution to Army Officers- a trust above and beyond other professions. Cadets will learn Army values and ethics and how to apply them to everyday life as well as in the Contemporary Operating Environment. The cadets will learn about the officer's role in the Uniform Code of Military Justice, counseling subordinates, administrative actions and methods on how to best manage their career as an Army officer. P- MIL 121 through MIL 226 (or equivalent credit as determined by the professor of military science).

**MIL 228. Leadership in a Complex World (MSL 402). (3 h)**

Continuation of MIL 227 with emphasis on the transition from cadet to officer. Explores the dynamics of leading military operations in the complex environment facing military officers. Cadets examine differences in customs and courtesies, military law, principles of war, and Rules of Engagement in the face of international terrorism. They also explore aspects of interacting with non-government organizations, civilians on the battlefield, and host nation support. Cadets will gain a foundation of knowledge regarding government and military policy based on hands-on case study scenarios involving current and past events. P- MIL 121 through MIL 227 (or equivalent credit as determined by the professor of military science).

**MIL 229. American Military History. (3 h)**

The American military experience with emphasis on the ideas and activities contributing to the development of the United States' unique military establishment. Particular emphasis on civilian control of the military. Credit not allowed for both MIL 229 and HST 369. P - POI.

## Faculty

Professor Major Lawrence A. Rubal

**Assistant Professors** Captain Elizabeth Morris, Captain Michael D. Fisher, Mr. Anthony Bradley, Mr. Jason Cockman, Master Sergeant David Saint-Val, Master Sergeant Rachel Mandzak

## Music (MUS)

The Department of Music offers courses in music history, music theory, composition, popular music, jazz, world music, as well as a wide variety of ensemble courses: orchestra, choirs, wind ensemble, jazz ensemble, Collegium musicum, chamber music, gamelan ensemble, Afro-Cuban drumming, and Chinese music ensemble. We also offer Individual Instruction in all instruments typically employed in orchestra, wind and jazz ensembles, as well as piano, voice, and classical guitar. The Wake Forest Concert Choir tours internationally on a two- to three-year cycle.

## Contact Information

Department of Music (<http://college.wfu.edu/music/>)  
Scales Fine Arts Center M309, Box 7345  
Phone 336-758-5026

## Programs

### Majors

- B.A. in Music in Liberal Arts
- B.A. in Music Performance

### Minor

- Minor in Music

## Courses

### Music (MUS)

**MUS 100. Music Recitals. (0 h)**

Recitals, concerts, and guest lectures sponsored by the Department of Music and the Secret Artists Series. (Specific attendance requirements will be established at the beginning of each semester.) Four semesters are required of music majors; three semesters are required of music minors. Pass/Fail only.

**MUS 101. Introduction to Western Music. (3 h)**

Basic theoretical concepts and musical terminology. Survey of musical styles, composers, and selected works from the Middle Ages through the present day. Satisfies the Division III requirement. May not count toward the majors or minor in music. (D)

**MUS 103. Music Production and Recording. (1.5 h)**

Introduction to modern recording techniques with hands-on experience in a multi-track recording studio. Topics to be addressed include basic acoustics of music, microphone techniques, digital audio workstation operation, and basic production techniques.

**MUS 104. Basic Music Reading and Skills. (1.5 h)**

A study of the fundamentals of music theory including key signatures, scales, intervals, chords, and basic sight-singing and ear-training skills. Designed for students wishing to participate in University ensembles and those wishing to pursue vocal, instrumental, and compositional instruction. May not count toward the majors or minor in music.

**MUS 106. Electronic Music Lab. (1.5 h)**

Foundations of MIDI protocol, with particular attention to the study and application of sequencers, notational programs, and synthesizers. Development of skills in written notation through use of computerized programs. Taught in the Music Computer Lab. P-MUS 101, 104, or POI.

**MUS 108. Alexander Technique for Musical Performers. (0.5 h)**

An educational process that uses verbal and tactile feedback to teach improved use of the student's body by identifying and changing poor and inefficient habits that cause stress, fatigue, and pain in the musical performer. This is a course designed to teach the performer to minimize physical effort and maximize expression. Meets two hours per week. Pass/Fail only.

**MUS 109. Introduction to the Music of World Cultures. (3 h)**

Survey of music in selected societies around the world. Topics will be selected from the following areas of concentration: India, East Asia, sub-Saharan Africa, western Europe, Latin America, and vernacular music of the U.S. (including jazz). May not count toward the majors or minor in music. Meets concurrently with MUS 209. Credit cannot be received for both MUS 109 and 209. (CD, D)

**MUS 111. Opera Workshop. (1 h)**

Study, staging, and performance of standard and contemporary operatic works. P-POI.

**MUS 112. Collegium Musicum Instrumental. (1 h)**

An ensemble stressing the performance practices and the performance of music of the medieval, Renaissance, and Baroque eras.

**MUS 113. Orchestra. (1 h)**

Study and performance of orchestral works from the classical and contemporary repertoire. P-Audition.

**MUS 114. Collegium Musicum Vocal. (1 h)**

An ensemble stressing the performance practices and the performance of music of the medieval, Renaissance, and Baroque eras. P-Audition.

**MUS 115. Concert Choir. (1 h)**

Select large mixed ensemble which travels internationally and performs the significant choral literature from the past five centuries. P-Audition.

**MUS 116. Chamber Choir. (1 h)**

Select small mixed ensemble which performs repertoire from classical choral genres, musical theatre, vocal jazz, and a cappella. P-audition.

**MUS 117. Gamelan Ensemble. (1 h)**

Cultural study and performance of traditional and new compositions for Balinese gamelan (percussion orchestra) and Balinese dance.

**MUS 118. Wind Ensemble. (1 h)**

Study and performance of music for mixed ensemble of winds, brass, and percussion. P-Audition.

**MUS 119. Symphonic Band. (1 h)**

Study and performance of music for symphonic band. Performs on campus.

**MUS 120. Chamber Music. (1 h)**

Study and performance of chamber music. Performers are strongly urged to participate in a larger ensemble as well. P-POI.

**MUS 120A. Chamber Music-Percussion. (1 h)****MUS 120B. Chamber Music-String. (1 h)****MUS 120C. Chamber Music-Brass. (1 h)****MUS 120D. Chamber Music-Woodwind. (1 h)****MUS 120E. Chamber Music-Mixed. (1 h)****MUS 120F. Chamber Music-Clarinet. (1 h)****MUS 120G. Chamber Music-Saxophone. (1 h)****MUS 120H. Chamber Music-Guitar. (1 h)****MUS 120I. Chamber Music-Keyboard. (1 h)****MUS 121. Jazz Ensemble. (1 h)**

Study and performance of written and improvised jazz for big band and combo ensembles.

**MUS 122. Music Theatre Practicum. (1 h)**

For musicians who perform in a departmentally-sponsored theatrical production (when their performance is not as a member of a departmental ensemble). May not be counted toward the majors or minor in music. Credit may be earned in a given semester for either MUS 122 or THE 283, but not both. Course may be repeated for no more than four hours. Pass/Fail only. P-POI.

**MUS 123. Woodwind Doubling. (1 h)**

Practical skills for woodwind instrumentalists who participate in musical theatre productions for which expertise on more than one instrument is required.

**MUS 124. Small Ensemble. (1 h)**

Study and performance of conducted works for small ensemble. Performers are strongly urged to participate in a larger ensemble as well. P-POI.

**MUS 124A. Small Ensemble: Percussion Ensemble. (1 h)****MUS 124B. Small Ensemble: Flute Choir. (1 h)****MUS 124C. Small Ensemble: Clarinet Choir. (1 h)****MUS 124D. Small Ensemble: Saxophone Ensemble. (1 h)****MUS 124E. Small Ensemble: Brass Choir. (1 h)****MUS 124F. Small Ensemble: Vocal Ensemble. (1 h)****MUS 124G. Small Ensemble: Mixed Ensemble. (1 h)****MUS 125. Music and Public Engagement. (0.5 h)**

Opportunities for students taking performance study or ensemble to perform in the community, under the supervision of the instructor of the performance study or ensemble. Students attend a required training session and generate on-site performances. If performing for special-needs audiences, students attend an additional required training session. a journal, log, and 15 contact hours of training, travel, and on-site performances. Pass/Fail only. May be repeated. C-Any course listed under "Ensemble" or "Performance Study", and POI.

**MUS 126. Afro-Cuban Drumming. (1 h)**

Exploration of the music and history of West African drumming through hands-on experience. Students learn to play jembe, dunun, shekere, iron bell, and their New World descendants, the conga drum, bongo, claves, maracas, and agogo bells.

**MUS 127. Chinese Ensemble. (1 h)**

Performance of traditional and new Chinese music compositions. Experience on Chinese traditional instruments (dizi, erhu, guzheng, pipa, ruan, percussion, etc.) preferred, but instrumentalists and vocalists of all traditions welcome.

**MUS 128. Athletic Band I. (1 h)**

Performs at most football games, as well as men's and women's home basketball games. Meets twice weekly. Regular performances on and off campus. Offered in fall.

**MUS 129. Athletic Band II. (0.5 h)**

Performs at men's and women's home basketball games, and at the spring football game. Meets from the beginning of the semester to spring break. Offered in spring. P-MUS 128 or POI.

**MUS 131. World of Musical Instruments. (3 h)**

Historical survey of musical instruments by families. Instruments of Western art music, selected world cultures, and vernacular music of the United States, as well as electronic instruments. Emphasis on the cultural, sociological, and technological as well as the musical aspects of instruments. Meets concurrently with MUS 231. Credit cannot be received for both MUS 131 and 231. (D)

**MUS 132. Introduction to Beethoven. (3 h)**

Introduction to the life and works of Ludwig van Beethoven. May not count toward the majors or minor in music. Meets concurrently with MUS 232. (D)

**MUS 134. Music of Asia. (3 h)**

Survey of classical, vernacular, and popular musical traditions in selected Asian cultures, focusing on India, China, Japan, Korea, and Southeast Asia. The course will also examine the influence of Asian and Western philosophy and musical aesthetics on the development of the music, theater, and dance of Asia. Meets concurrently with MUS 234. Students may not receive credit for both MUS 134 and 234. (CD, D)

**MUS 140. Introduction to Modern Popular Music. (3 h)**

A survey of the history of popular music focusing on the United States from 1955-present that examines influential music genres and individual artists as well as situating their repertoires within sociocultural, political, economic, and technological contexts. May not count toward the major or minor in music. Meets concurrently with MUS 240. Credit cannot be received for both MUS 140 and 240. (CD, D)

**MUS 161. Individual Instruction. (0.5 h)**

Technical studies and repertoire of progressive difficulty selected to meet the needs and abilities of the student. One half-hour lesson per week. (See the fee section of this bulletin for specific information regarding additional costs.) Does not fulfill the individual instruction requirements for the major in music performance. May be repeated for credit. P-POI.

**MUS 161A. Individual Instruction: Violin. (0.5 h)****MUS 161AA. Individual Instruction: Carillon. (0.5 h)****MUS 161B. Individual Instruction: Viola. (0.5 h)****MUS 161C. Individual Instruction: Cello. (0.5 h)****MUS 161D. Individual Instruction: Bass. (0.5 h)****MUS 161E. Individual Instruction: Flute. (0.5 h)****MUS 161F. Individual Instruction: Oboe. (0.5 h)****MUS 161G. Individual Instruction: Clarinet. (0.5 h)****MUS 161H. Individual Instruction: Bassoon. (0.5 h)****MUS 161I. Individual Instruction: Saxophone. (0.5 h)****MUS 161J. Individual Instruction: Trumpet. (0.5 h)****MUS 161JI. Individual Instruction: Jazz Saxophone. (0.5 h)****MUS 161JJ. Individual Instruction: Jazz Trumpet. (0.5 h)****MUS 161JP. Individual Instruction: Jazz Piano. (0.5 h)****MUS 161JR. Individual Instruction: Jazz Guitar. (0.5 h)****MUS 161K. Individual Instruction: French Horn. (0.5 h)****MUS 161L. Individual Instruction: Trombone. (0.5 h)****MUS 161M. Individual Instruction: Baritone. (0.5 h)****MUS 161N. Individual Instruction: Tuba. (0.5 h)****MUS 161O. Individual Instruction: Organ. (0.5 h)****MUS 161P. Individual Instruction: Piano. (0.5 h)****MUS 161Q. Individual Instruction: Percussion. (0.5 h)****MUS 161R. Individual Instruction: Guitar. (0.5 h)****MUS 161S. Individual Instruction: Harp. (0.5 h)****MUS 161T. Individual Instruction: Electric Bass. (0.5 h)****MUS 161U. Individual Instruction: Accompanying. (0.5 h)****MUS 161V. Individual Instruction: Voice. (0.5 h)****MUS 161W. Individual Instruction: Recorder. (0.5 h)****MUS 161X. Individual Instruction: Viola da Gamba. (0.5 h)****MUS 161Y. Individual Instruction: Harpsichord. (0.5 h)****MUS 161Z. Individual Instruction: Jazz Improvisation. (0.5 h)****MUS 162. Individual Instruction. (1 h)**

One one-hour lesson per week. (See the fee section of this bulletin for specific information regarding additional costs.) Does not fulfill the individual instruction requirements for the major in music performance. May be repeated for credit. P-POI.

**MUS 162A. Individual Instruction: Violin. (1 h)**  
**MUS 162AA. Individual Instruction: Carillon. (1 h)**  
**MUS 162B. Individual Instruction: Viola. (1 h)**  
**MUS 162C. Individual Instruction: Cello. (1 h)**  
**MUS 162D. Individual Instruction: Bass. (1 h)**  
**MUS 162E. Individual Instruction: Flute. (1 h)**  
**MUS 162F. Individual Instruction: Oboe. (1 h)**  
**MUS 162G. Individual Instruction: Clarinet. (1 h)**  
**MUS 162H. Individual Instruction: Bassoon. (1 h)**  
**MUS 162I. Individual Instruction: Saxophone. (1 h)**  
**MUS 162J. Individual Instruction: Trumpet. (1 h)**  
**MUS 162JI. Individual Instruction: Jazz Saxophone. (1 h)**  
**MUS 162JJ. Individual Instruction: Jazz Trumpet. (1 h)**  
**MUS 162JK. Indiv Instr - Jazz Trumpet. (1 h)**  
**MUS 162JP. Individual Instruction: Jazz Piano. (1 h)**  
**MUS 162JR. Individual Instruction: Jazz Guitar. (1 h)**  
**MUS 162K. Individual Instruction: French Horn. (1 h)**  
**MUS 162L. Individual Instruction: Trombone. (1 h)**  
**MUS 162M. Individual Instruction: Baritone. (1 h)**  
**MUS 162N. Individual Instruction: Tuba. (1 h)**  
**MUS 162O. Individual Instruction: Organ. (1 h)**  
**MUS 162P. Individual Instruction: Piano. (1 h)**  
**MUS 162Q. Individual Instruction: Percussion. (1 h)**  
**MUS 162R. Individual Instruction: Guitar. (1 h)**  
**MUS 162S. Individual Instruction: Harp. (1 h)**  
**MUS 162T. Individual Instruction: Electric Bass. (1 h)**  
**MUS 162U. Individual Instruction: Accompanying. (1 h)**  
**MUS 162V. Individual Instruction: Voice. (1 h)**  
**MUS 162W. Individual Instruction: Recorder. (1 h)**  
**MUS 162X. Individual Instruction: Viola da Gamba. (1 h)**  
**MUS 162Y. Individual Instruction: Harpsichord. (1 h)**  
**MUS 162Z. Individual Instruction: Jazz Improvisation. (1 h)**  
**MUS 165J. Brass Rudiments. (0.5 h)**  
 Introduction to the fundamentals of playing brass instruments. Designed for students with musical experience as well as beginners with no prior musical training. Offered in spring. P-POI.  
**MUS 165Q. Class Percussion. (0.5 h)**  
 Introduction to the fundamentals of playing percussion instruments. Includes an introduction to reading music as well as basic techniques on instruments of the percussion family. P-POI.  
**MUS 165R. Class Guitar I. (0.5 h)**  
 For beginner students. Introduction to finger style guitar techniques: strumming, plucking, arpeggios, and damping. Reading and playing from musical notation. Nylon string guitar is required.  
**MUS 165V. Class Voice I. (0.5 h)**  
 Introduction to the fundamental principles of singing, concepts of breath control, tone, and resonance. P-POI.

**MUS 166R. Class Guitar II. (0.5 h)**  
 Continuation of finger style guitar techniques with emphasis on chordal progressions, scales, accompanying patterns, and sight-reading. Nylon string guitar required. P-MUS 165R.  
**MUS 166V. Class Voice II. (0.5 h)**  
 Continuation of fundamental vocal techniques. P-MUS 165V or POI.  
**MUS 167V. Theatrical Singing I: Class Voice. (0.5 h)**  
 Basic techniques of singing, breath control, phonation, and resonance, with emphasis on theatrical projection. Study and performance of musical theater repertoire. One hour per week. P-POI.  
**MUS 168V. Theatrical Singing II: Class Voice. (0.5 h)**  
 Continuation of theatrical singing techniques with increased study and performance of musical theater repertoire. One hour per week. P-MUS 167V or POI.  
**MUS 171. Music Theory I. (4 h)**  
 Music fundamentals (key signatures, scales, modes, intervals, chords), simple part-writing, sight-singing, dictation and keyboard harmony. Prerequisite for the audition in music performance. Designed for music majors and minors. Offered in fall. (D)  
**MUS 172. Music Theory II. (4 h)**  
 Seventh chords, secondary chords, altered chords, part-writing, basic counterpoint, basic musical forms, sight-singing, dictation and keyboard harmony. Offered in spring. P-MUS 171.  
**MUS 173. Music Theory III. (4 h)**  
 Altered chords, continuation of part-writing, 18th- and 19th-century forms, ear training, sight-singing, dictation, rhythmic skills, and keyboard harmony. Offered in fall. P-MUS 172.  
**MUS 174. Music Theory IV. (4 h)**  
 Expanded harmony and techniques from Impressionism to the present. New concepts of style and form. Ear training, sight-singing, dictation, rhythmic skills, and keyboard harmony. Offered in spring. P-MUS 173.  
**MUS 175V. Advanced Voice Class. (1 h)**  
 Development of advanced vocal technique and repertoire. Limited to eight students. Two hours per week; may be repeated. P-MUS 166V or POI.  
**MUS 177V. Advanced Theatrical Singing. (1 h)**  
 Development of advanced theatrical singing technique and performance of musical theater repertoire. Limited to eight students. Two hours per week; may be repeated. P-MUS 168V or POI.  
**MUS 178. Class Piano I. (1 h)**  
 Class piano for beginners. Pentascales in all keys, all major and minor chords, arpeggios, improvisation, technique, introduction to music notation through playing pieces in various styles appropriate to the beginning level.  
**MUS 179. Class Piano II. (1 h)**  
 Continuation of foundational principles. Early intermediate repertoire, scales hands together, principles of fingering, musical approach to learning, chords, arpeggios and ensemble duets. P- MUS 178 or POI.  
**MUS 181. Music History I. (3 h)**  
 History of western art music from the ancient Greeks to 1750. It is recommended that students take MUS 171 before enrolling in MUS 181. Reading knowledge of music is essential. Offered in fall. P-MUS 171 or POI. (D)  
**MUS 182. Music History II. (3 h)**  
 History of western art music from 1750 to World War I. It is recommended that students take MUS 171 before enrolling in MUS 182. Reading knowledge of music is essential. Offered in spring. P-MUS 171 or POI. (D)

**MUS 183. Music History III. (3 h)**

History of western art music from the beginning of the 20th century to the present day and its associations with other cultures and disciplines. Reading knowledge of music is essential. Offered in fall. P-MUS 171 or POI. (D)

**MUS 190. Diction for Singers. (1.5 h)**

Study of articulation in singing, with emphasis on modification of English; pronunciation of Italian, German, and French. Development of articulatory and aural skills with use of the international phonetic alphabet. Individual performance and coaching in class. (Two hours per week.) May not be repeated for credit.

**MUS 203. Jazz. (3 h)**

Survey of American jazz from its origin to the present. P- POI. (CD, D)

**MUS 205. History of American Music Theatre. (3 h)**

Survey of the American musical from its origins to the present. P-POI. (CD, D)

**MUS 207. American Music. (3 h)**

A study of the musical sources of American culture and the six streams of music in the United States: folk and ethnic musics, offsprings of the rural South (country music, blues, rock), jazz and its forerunners, popular sacred music, popular secular music, and art music. (CD, D)

**MUS 208. Women and Music. (3 h)**

Historical overview of women musicians in society. (CD, D)

**MUS 209. Music of World Cultures. (3 h)**

Survey of music in selected societies around the world. Topics will be selected from the following areas of concentration: India, East Asia, sub-Saharan Africa, Western Europe, Latin America, and vernacular music of the United States (including jazz). Students complete a project or projects on the technical or theoretical aspects of the music of world cultures. Designed for music majors and minors in cultural resource preservation. Meets concurrently with MUS 109. Credit cannot be received for both MUS 109 and 209. P-MUS 172 or POI. (CD, D)

**MUS 210. Survey of Latin American Music. (3 h)**

A survey of art, folk, and popular musical styles in Latin America and their impact on music of other cultures. Divided into three areas of study: the Caribbean, Central America, and South America. (CD, D)

**MUS 212. Music in the Church. (3 h)**

Function of church musicians and the relationship of their work to the church program. Offers to musician and non-musician alike historical overview, hymnody survey and other church music-related topics through class and guest lectures and practical seminars. P-POI.

**MUS 214. Music of Italy. (3 h)**

Study of art music composed in Italy, with special emphasis on composers associated with Venice. Offered only at Casa Artom in Venice. (D)

**MUS 215. Philosophy of Music. (3 h)**

A survey of philosophical writings about music. Musical aesthetics; social, religious, and political concerns.

**MUS 219. Music in Vienna. (3 h)**

Study of the music and musical institutions of Vienna and Central Europe. Taught in English. Offered only at the Flow House in Vienna. (D)

**MUS 220. Seminar in Music History. (3 h)**

Intensive study of a selected topic in music history. P-MUS 174, 181, 182, 183, or POI. (D)

**MUS 231. World of Musical Instruments. (3 h)**

Historical survey of musical instruments by families. Instruments of Western art music, selected world cultures, and vernacular music of the United States, as well as electronic instruments. Students complete a project or projects on the technical or theoretical aspects of instruments. Designed for music majors and minors. Meets concurrently with MUS 131. Credit cannot be received for both MUS 131 and 231. P-MUS 171 or POI. (D)

**MUS 232. Beethoven. (3 h)**

The life and works of Ludwig van Beethoven. Students complete a project or projects on the technical or theoretical aspects of Beethoven's music. Meets concurrently with MUS 132. Credit cannot be received for both MUS 132 and 232. P-POI. (D)

**MUS 234. Music of Asia. (3 h)**

Survey of classical, vernacular, and popular musical traditions in selected Asian cultures, focusing on India, China, Japan, Korea, and Southeast Asia. The course will also examine the influence of Asian and Western philosophy and musical aesthetics on the development of the music, theater, and dance of Asia. Students will complete a project or projects on the technical or theoretical aspects of music of Asia. Designed for music majors and minors. Meets concurrently with MUS 134. Students may not receive credit for both MUS 134 and 234. (CD, D)

**MUS 240. Modern Popular Music. (3 h)**

A survey of the history of popular music focusing on the United States from 1955-present that examines influential music genres and individual artists as well as situating their repertoires within sociocultural, political, economic, and technological contexts. Students complete a final project on an aspect of popular music. Designed for music majors and minors. Meets concurrently with MUS 140. Credit cannot be received for both MUS 140 and 240. P - MUS 172 or POI. (CD, D)

**MUS 262. Individual Instruction. (1.5 h)**

One one-hour lesson per week. (See the fee section of this bulletin for specific information regarding additional costs) Fulfills the individual instruction requirements for the major in music performance. May be repeated for credit. P - 2 hours of MUS 161 and/or MUS 162, plus successful completion of the audition for the major in musical performance, and POI.

**MUS 262A. Individual Instruction: Violin. (1.5 h)**

**MUS 262B. Individual Instruction: Viola. (1.5 h)**

**MUS 262C. Individual Instruction: Cello. (1.5 h)**

**MUS 262D. Individual Instruction: Bass. (1.5 h)**

**MUS 262E. Individual Instruction: Flute. (1.5 h)**

**MUS 262F. Individual Instruction: Oboe. (1.5 h)**

**MUS 262G. Individual Instruction: Clarinet. (1.5 h)**

**MUS 262H. Individual Instruction: Bassoon. (1.5 h)**

**MUS 262I. Individual Instruction: Saxophone. (1.5 h)**

**MUS 262J. Individual Instruction: Trumpet. (1.5 h)**

**MUS 262K. Individual Instruction: French Horn. (1.5 h)**

**MUS 262L. Individual Instruction: Trombone. (1.5 h)**

**MUS 262M. Individual Instruction: Baritone. (1.5 h)**

**MUS 262N. Individual Instruction: Tuba. (1.5 h)**

**MUS 262O. Individual Instruction: Organ. (1.5 h)**

**MUS 262P. Individual Instruction: Piano. (1.5 h)**

**MUS 262Q. Individual Instruction: Percussion. (1.5 h)**

**MUS 262R. Individual Instruction: Guitar. (1.5 h)**

**MUS 262S. Individual Instruction: Harp. (1.5 h)**

**MUS 262T. Individual Instruction: Electric Bass. (1.5 h)**

**MUS 262U. Individual Instruction: Accompanying. (1.5 h)**

**MUS 262V. Individual Instruction: Voice. (1.5 h)**

**MUS 262W. Individual Instruction: Recorder. (1.5 h)**

**MUS 262X. Individual Instruction: Viola da Gamba. (1.5 h)**

**MUS 262Y. Individual Instruction: Harpsichord. (1.5 h)**

**MUS 262Z. Individual Instruction: Jazz Improvisation. (1.5 h)**

**MUS 272. Performance and Analysis. (1.5 h)**

Individual instruction in practical music analysis for research and performance preparation. P-MUS 172 or POI.

**MUS 273. Composition. (1-1.5 h)**

Individual instruction in the craft of musical composition. May be repeated for credit. P - MUS 172 or POI.

**MUS 279. Internship in Music. (1-3 h)**

A supervised learning experience in music, in a work environment, for academic credit. No more than 3 hours may be counted toward a music major or minor. For further information, consult the Music Student Handbook. P-Declaration of a music major or minor, minimum Wake Forest GPA of 2.75, permission of faculty internship director. Pass/Fail only.

**MUS 280. Orchestration. (3 h)**

Study of the orchestral and wind band instruments, how composers have used them throughout history, and the development of practical scoring and manuscript skills. Offered in spring. P-MUS 174, MUS 182, and MUS 183 or POI.

**MUS 282. Conducting. (3 h)**

A study of choral and instrumental conducting techniques. P-MUS 172 or POI.

**MUS 283. Roots of Song. (3 h)**

Interdisciplinary investigation of poetry and song in the Middle Ages and early Renaissance. Study of the evolution of poetic and musical genres and styles, both sacred and secular. Students must complete a project or projects on the technical or theoretical aspects of early song. Students may not receive credit for both MUS 283 and ENG 313.

**MUS 284. Music Literature Seminar. (3 h)**

Survey of repertoire, including an examination of teaching materials in the student's special area of interest. (D)

**MUS 284A. Music Literature Seminar: Orchestral Literature. (3 h)**

**MUS 284B. Music Literature Seminar: Choral Literature. (3 h)**

**MUS 284C. Music Literature Seminar: Piano Literature. (3 h)**

**MUS 284D. Music Literature Seminar: Guitar Literature. (3 h)**

**MUS 284E. Music Literature Seminar: Vocal Literature. (3 h)**

**MUS 284F. Music Literature Seminar: Opera. (3 h)**

**MUS 285. Special Topics in Music. (1-3 h)**

An intensive study of a selected subject chosen by faculty prior to the term in which the course is offered. May be repeated if course content differs. P-POI.

**MUS 298. Independent Study. (1-3 h)**

Project in an area of study not otherwise available in the department. By pre-arrangement with department chair. P-Minimum Wake Forest GPA of 2.75.

**MUS 362. Senior Recital. (3 h)**

Preparation and public performance of a recital. (See the fee section of this bulletin for specific information regarding additional costs.) Fulfills the individual instruction requirements for the major in music performance. To be taken only during the senior year. A student may not receive credit for both MUS 362 and 363. A student may not enroll in MUS 262 and 362 in the same semester. May not be repeated for credit. P-Two semesters of MUS 262 and POI.

**MUS 363. Senior Honors Recital. (3 h)**

Preparation and public performance of a recital at the honors level. (See the fee section of this bulletin for specific information regarding additional costs.) Fulfills the individual instruction requirements for the major in music performance. To be taken only during the senior year. A student may not receive credit for both MUS 362 and 363. A student may not enroll in MUS 262 and 363 in the same semester. May not be repeated for credit. P-Faculty selection for honors in music.

**MUS 396. Senior Project Preparation. (1 h)**

Research, outlining, and other work preliminary to the completion of the written document in MUS 397 or 398. Optional for the music in liberal arts major. May not be taken concurrently with or after MUS 397 or 398. By prearrangement.

**MUS 397. Senior Project. (3 h)**

Writing and public presentation of a major composition, research paper, music analysis or conducting endeavor, according to criteria on file in the department. A student may not receive credit for both MUS 397 and 398. By prearrangement.

**MUS 398. Senior Honors Project. (3 h)**

Writing and public presentation of a major composition, research paper, music analysis, or conducting endeavor, according to criteria on file in the department. A student may not receive credit for both MUS 397 and 398. P-Faculty selection for Honors in Music.

## Faculty

**Chair** Peter Kairoff

**Associate Chair** Jacqui Carrasco

**Professors** Jacqui Carrasco, Stewart Carter, Louis Goldstein, Peter Kairoff, David B. Levy, Teresa Radomski

**Composer-in-Residence and Professor** Dan Locklair

**Associate Professor** Elizabeth Clendinning

**Assistant Professor** Bryon Grohman, David Geary

**Director of Choral Ensembles and Assistant Professor** Christopher Gilliam

**Director of Bands** C. Kevin Bowen

**Assistant Teaching Professor and Director of Athletic Bands** Timothy Heath

**Director of Orchestra** David Hagy

**Professor of the Practice** Kathryn Levy

**Associate Teaching Professor** Joanne Inkman

**Assistant Teaching Professor** Marco Sartor

**Assistant Professor of the Practice** John Sadak

**Lecturer** Ulrike Anton (Vienna)

## Music in Liberal Arts, B.A.

### Requirements

The Department of Music offers two majors, one in music performance, requiring 41 hours, and a second in music in liberal arts, also requiring 41 hours. Students who choose one of these majors may not choose the other as a second major. Both majors include a basic curriculum of:

Code	Title	Hours
<b>Music Theory</b>		
MUS 171	Music Theory I	4
MUS 172	Music Theory II	4
MUS 173	Music Theory III	4
MUS 174	Music Theory IV	4
<b>Music History</b>		
MUS 181	Music History I	3
MUS 182	Music History II	3
MUS 183	Music History III	3
Select one of the the following courses outside the Western Classical Tradition:		
MUS 203	Jazz	
MUS 205	History of American Music Theatre	
MUS 207	American Music	
MUS 209	Music of World Cultures	
MUS 210	Survey of Latin American Music	
MUS 234	Music of Asia	
MUS 285	Special Topics in Music (when the topic is appropriate)	
MUS 100	Music Recitals (four semesters)	0

Students in both majors are encouraged to consider PHY 115 for one of their Division V requirements.

In addition to the basic curriculum, the major in music in liberal arts requires:

Code	Title	Hours
MUS 161	Individual Instruction	4
or MUS 162	Individual Instruction	
<b>Ensembles *</b>		3
<b>Elective Courses in Music **</b>		7
<b>Performance Proficiency Examination</b>		
MUS 397	Senior Project ***	3
or MUS 398	Senior Honors Project	

\* Excluding MUS 128 and MUS 129, and taken in three semesters.

\*\* Excluding ensembles and MUS 101, MUS 104, MUS 109, MUS 131, MUS 161-MUS 162, MUS 165V-MUS 168V, MUS 175V, MUS 177V, MUS 262.

\*\*\* To undertake the senior project, a student must have a grade point average of 2.0 in courses in the major.

Regarding ensemble requirements for the majors and minor in music, students who are singers must fulfill the ensemble requirement by enrolling in MUS 114, MUS 115 and/or MUS 116. Students who play a band or orchestral instrument must fulfill the ensemble requirement by performing on their primary instrument in MUS 112, MUS 113, MUS 118, and/or MUS 121. Performers on keyboard instruments are strongly encouraged to enroll in one of the above ensembles, but may also fulfill the ensemble requirement through participation in chamber music (MUS 120A-MUS 120I).

### Honors

Highly qualified majors in music performance or music in liberal arts may be invited by the music faculty to apply for admission to honors in music. To be graduated with the designation "Honors in Music," a candidate must have an overall grade point average of at least 3.0, and a grade point average of at least 3.5 in courses in the major, be selected for this honor by the music faculty, and successfully complete either MUS 363 or MUS 398. More information is available from the music department.

## Music Performance, B.A.

### Requirements

The Department of Music offers two majors, one in music performance, requiring 41 hours, and a second in music in liberal arts, also requiring 41 hours. Students who choose one of these majors may not choose the other as a second major. Both majors include a basic curriculum of:

Code	Title	Hours
<b>Music Theory</b>		
MUS 171	Music Theory I	4
MUS 172	Music Theory II	4
MUS 173	Music Theory III	4
MUS 174	Music Theory IV	4
<b>Music History</b>		
MUS 181	Music History I	3
MUS 182	Music History II	3
MUS 183	Music History III	3
Select one of the the following courses outside the Western Classical Tradition:		
MUS 203	Jazz	
MUS 205	History of American Music Theatre	

MUS 207	American Music	
MUS 209	Music of World Cultures	
MUS 210	Survey of Latin American Music	
MUS 234	Music of Asia	
MUS 285	Special Topics in Music (when the topic is appropriate)	
MUS 100	Music Recitals (four semesters)	0

Students in both majors are encouraged to consider PHY 115 for one of their Division V requirements.

To be admitted to the major in music performance, a student must first successfully complete MUS 171 and then pass an audition before the entire music faculty. The audition should be completed during the sophomore year in order to fulfill during the third and fourth years the number of hours above the 100 level required of the performance major. Students who audition are required to

1. demonstrate technical skill when appropriate to the instrument
2. perform standard repertoire
3. sight-read

All of the required areas must be deemed strong enough by a majority vote of the faculty for the student to be accepted as a major in music performance. In addition to the basic curriculum, the major in music performance requires:

Code	Title	Hours
MUS 262	Individual Instruction *	3
MUS 362	Senior Recital *	3
or MUS 363	Senior Honors Recital	
Ensembles **		4
Electives in Music ***		3
Senior Recital ****		

\* Individual instruction above the 100 level, which require as a prerequisite the successful completion of an audition.

\*\* Excluding MUS 119, MUS 128, and MUS 129, and taken in four semesters.

\*\*\* Excluding ensembles and MUS 101, MUS 104, MUS 109, MUS 131, MUS 161-MUS 162, MUS 165V-MUS 168V, MUS 175V, MUS 177V, MUS 262.

\*\*\*\* To undertake the senior recital, a student must have a grade point average of 2.0 in courses in the major.

Students considering a major in music performance or music in liberal arts are urged to begin their musical studies during the first year and should consult the chair of the department as soon as possible after entering the University. Highly motivated students who would like to further expand or apply their study beyond the normal course offerings may undertake internships or independent study, if they fulfill the minimum overall GPA of 2.75.

Regarding ensemble requirements for the majors and minor in music, students who are singers must fulfill the ensemble requirement by enrolling in MUS 114, MUS 115 and/or MUS 116. Students who play a band or orchestral instrument must fulfill the ensemble requirement by performing on their primary instrument in MUS 112, MUS 113, MUS 118, and/or MUS 121. Performers on keyboard instruments are strongly encouraged to enroll in one of the above ensembles, but may also fulfill

the ensemble requirement through participation in chamber music (MUS 120A-MUS 120I).

## Honors

Highly qualified majors in music performance or music in liberal arts may be invited by the music faculty to apply for admission to honors in music. To be graduated with the designation "Honors in Music," a candidate must have an overall grade point average of at least 3.0, and a grade point average of at least 3.5 in courses in the major, be selected for this honor by the music faculty, and successfully complete either MUS 363 or MUS 398. More information is available from the music department.

## Music, Minor

### Requirements

Requires 19 hours:

Code	Title	Hours
MUS 171	Music Theory I	4
MUS 172	Music Theory II	4
Select one of the following:		3
MUS 181	Music History I	
MUS 182	Music History II	
MUS 183	Music History III	
Ensemble *		2
Individual Instruction		2
MUS 100	Music Recitals (three semesters)	0
Music Electives **		4

\* Excluding MUS 128, MUS 129, and taken in two semesters.

\*\* Three of which must be in music in liberal arts, excluding MUS 100, MUS 101, MUS 104, and MUS 109.

Each minor is assigned an adviser in the music department and is encouraged to begin individual lessons, MUS 171, and MUS 100 as early as possible.

Regarding ensemble requirements for the majors and minor in music, students who are singers must fulfill the ensemble requirement by enrolling in MUS 114, MUS 115 and/or MUS 116. Students who play a band or orchestral instrument must fulfill the ensemble requirement by performing on their primary instrument in MUS 112, MUS 113, MUS 118, and/or MUS 121. Performers on keyboard instruments are strongly encouraged to enroll in one of the above ensembles, but may also fulfill the ensemble requirement through participation in chamber music (MUS 120A-MUS 120I).

## Neuroscience (NEU)

Interdisciplinary Minor

The neuroscience minor provides an interdisciplinary approach to the study of the nervous system. Neuroscientists study how we learn, process and remember information from the molecular to the philosophical level, and examine subjects ranging from the molecular pharmacology of brain function to the mind-body problem.

Neuroscience offers a five-year dual degree program jointly sponsored by the Wake Forest University College of Arts and Sciences and the Graduate School of Arts and Science. Wake Forest University



undergraduates pursuing a B.S. or B.A. degree in Wake Forest College of Arts and Sciences with a minor in Neuroscience have the opportunity to earn a research-oriented M.S. degree with concentration in Neuroscience with one additional year of study. Interested students can get more information at <http://neuroscience.wfu.edu/5-year-neuroscience-masters-program/>.

## Contact Information

Neuroscience (<http://neuroscience.wfu.edu/>)

## Programs Minor

- Minor in Neuroscience

## Courses

### Neuroscience (NEU)

#### NEU 200. Introduction to Neuroscience. (3 h)

An interdisciplinary course taught by faculty representing several fields. Topics include neurophysiology, sensory biology, motor mechanisms, psychopharmacology, cognitive neuroscience, perception, and developmental neuroscience. P-BIO 150 or PSY 151 and sophomore standing. Fall only.

#### NEU 201. Neuroscience Laboratory. (1 h)

Examines principles of neuroscience ranging from the molecular and cellular to the behavioral and cognitive. Lab-3 hours. P or C-NEU 200. Fall only.

#### NEU 300. Neuroscience Seminars. (3 h)

Consideration of current neuroscience topics. Presentations of current research by faculty on the Reynolda Campus or the Wake Forest University School of Medicine. Readings from the primary literature will accompany the presentations. P-NEU 200 or POI. Spring only.

#### NEU 301. Topics in Neuroscience. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

#### NEU 302. Topics in Neuroscience. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

#### NEU 303. Topics in Neuroscience. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

#### NEU 304. Topics in Neuroscience. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

#### NEU 391. Research in Neuroscience. (2 h)

Supervised independent laboratory investigation in neuroscience. P-POI.

#### NEU 392. Research in Neuroscience. (2 h)

Continued supervised independent laboratory investigation in Neuroscience. Not to be counted toward the minor. P-NEU 391 and POI.

#### NEU 393. Research in Neuroscience. (2 h)

Continued supervised independent laboratory investigation in Neuroscience. Not to be counted toward the minor. P-NEU 392 and POI.

#### NEU 394. Research in Neuroscience. (2 h)

Continued supervised independent laboratory investigation in Neuroscience. Not to be counted toward the minor. P-NEU 393 and POI.

## Faculty

Coordinator, Professor of Biology Wayne L. Silver

## Neuroscience, Minor

### Requirements

The minor requires a minimum of 17 hours:

Code	Title	Hours
NEU 200	Introduction to Neuroscience	3
NEU 201	Neuroscience Laboratory	1
NEU 300	Neuroscience Seminars	3
NEU 391	Research in Neuroscience *	2
Electives **		8

\* At least one semester of research in neuroscience is required for the minor (NEU 391). The research can be conducted on the Reynolda Campus or with investigators at the Wake Forest University School of Medicine. The research project must be approved by a member of the neuroscience minor faculty.

\*\* One of the elective courses must come from outside the student's major department.

Additional elective courses may have been approved since publication of this bulletin. The program coordinator maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this publication.

## Electives for Neuroscience

Code	Title	Hours
BIO 323 & 323L	Animal Behavior and Animal Behavior Lab	4
BIO 324	Hormones and Behavior	3
BIO 346 & 346L	Neurobiology and Neurobiology Lab	4
BIO 352	Developmental Neuroscience	4
BIO 353	Functional Neuroanatomy	3
BIO 363 & 363L	Sensory Biology and Sensory Biology Lab	4
BIO 374	Neuropharmacology	3
EDU 311	Learning and Cognitive Science	3
HES 312	Exercise and Health Psychology	3
HES 350	Human Physiology	3
LIN 330	Introduction to Psycholinguistics and Language Acquisition	3
NEU 301	Topics in Neuroscience	1-4
NEU 302	Topics in Neuroscience	1-4
NEU 303	Topics in Neuroscience	1-4
NEU 304	Topics in Neuroscience	1-4
PHI 374	Philosophy of Mind	3
PSY 243	Biopsychology	3
PSY 248	Cognitive Psychology	3
PSY 320	Physiological Psychology	3
PSY 322	Psychopharmacology	3
PSY 323	Animal Behavior	3

PSY 326	Learning Theory and Research	3
PSY 329	Perception	3
PSY 331	Research in Cognitive Psychology	3
PSY 333	Motivation of Behavior	3
PSY 338	Emotion	3
PSY 348	Clinical Neuroscience	3

Note that many of these courses have prerequisites, in some cases including introductory biology, psychology, or chemistry.

## Philosophy (PHI)

Philosophy examines such topics as consciousness, knowledge, justice, free will, good and evil, and the nature of religious experience and belief. Engagement with the central questions of philosophy is valuable in itself; it is also valuable as a means of developing analytical, critical, and imaginative skills useful in the study of most other subjects, in the pursuit of careers as varied as law, business, medicine, science, education, and the arts, and in effective participation in civic life. A liberal arts education should introduce students to rigorous thinking and writing about philosophical issues and to the reading of great philosophical texts. We help to realize this goal through the courses we offer, through one-on-one discussion with students, and by presenting lectures, colloquia, and debates open to the University and the public.

Any 3-hour philosophy course numbered PHI 220 or lower counts towards satisfying the Division I requirement. Courses taken elsewhere after a student has enrolled at Wake Forest University will not count towards satisfying the Division I requirement in philosophy.

## Contact Information

D (<http://college.wfu.edu/philosophy/>) department of Philosophy (<http://college.wfu.edu/philosophy/>)  
Tribble Hall B301, Box 7332  
Phone 336-758-5359

## Programs

### Major

- B.A. in Philosophy

### Minor

- Minor in Philosophy

## Courses

### Philosophy (PHI)

#### PHI 111. Problems of Philosophy. (3 h)

Examines the basic concepts of several representative philosophers, including their accounts of the nature of knowledge, persons, God, mind, and matter. (D)

#### PHI 112. Introduction to Philosophical Ideas. (3 h)

How and why does philosophy engage religious belief and common sense? Why is the purposive world of pre-modern life abandoned by modern naturalism, skepticism, and existentialism? How are our contemporary ideas of self and world expressions of these opposing conceptions of life, love, and meaning? (D)

#### PHI 113. Knowledge and Reality. (3 h)

Examination of three interconnected philosophic problems: the nature of existence; the distinction between truth and falsity; and the question of what it means to know. (D)

#### PHI 114. Philosophy of Human Nature. (3 h)

A study of selected topics bearing on human nature, such as free will and determinism, the relation of mind and body, personal identity and personhood, and immortality. (D)

#### PHI 115. Introduction to Philosophy of Religion. (3 h)

A study of some central issues in the philosophy of religion, such as arguments for and against the existence of God; faith and reason; the divine attributes; the nature and existence of the soul; the possibility of immortality; and religious diversity. (D)

#### PHI 116. Meaning and Happiness. (3 h)

Beginning with Plato (c. 400 BCE) and ending with Foucault (died 1984) the course will look at the views of Western philosophers who have discussed how to live a happy, meaningful life, with particular attention paid to 'post-death-of-God' philosophers. (e.g., Schopenhauer, Nietzsche, Marx, Sartre, Camus, Heidegger). (D)

#### PHI 160. Introduction to Political Philosophy. (3 h)

Examines basic concepts and problems in political thought, including social and economic issues, individual rights, equality, justice, and the common good. (D)

#### PHI 161. Introduction to Bioethics. (3 h)

A study of ethical issues that arise in health care and the life sciences such as informed consent, experimentation on human subjects, truth-telling, confidentiality, abortion, and the allocation of scarce medical resources. (D)

#### PHI 163. Environmental Ethics. (3 h)

An examination of ethical issues concerning the environment as they arise in individual lives and public policy. (D)

#### PHI 164. Contemporary Moral Problems. (3 h)

A study of pressing ethical issues in contemporary life, such as abortion, euthanasia, animal rights, affirmative action, marriage, cloning, pornography, and capital punishment. (D)

#### PHI 165. Introduction to Philosophy of Law. (3 h)

An examination of prominent legal cases and their underlying principles, with an emphasis on philosophical analysis and moral evaluation. Topics include the rule of law, constitutional interpretation, judicial review, legal enforcement of morality, punishment, and freedom of speech and of religion. (D)

#### PHI 220. Logic. (3 h)

Elementary study of the laws of valid inference, recognition of fallacies, and logical analysis. (D)

#### PHI 221. Symbolic Logic. (3 h)

Introduces propositional and predicate logic, including identity and functions. Construction of proofs. Use of models to demonstrate consistency and invalidity. Application of these techniques to the assessment of arguments expressed in ordinary language.

#### PHI 232. Ancient Greek Philosophy. (3 h)

A study of the central figures in early Greek philosophy, beginning with the Presocratics, focusing primarily on Plato and Aristotle, and concluding with a brief survey of some Hellenistic philosophers. P - One PHI course or POI.

**PHI 235. Main Streams of Chinese Philosophy. (3 h)**

Survey of the main streams of Chinese philosophical thought from their ancient beginnings to their development and influence on one another in later eras.

**PHI 237. Medieval Philosophy. (3 h)**

A survey of some major philosophers from Augustine to Suarez, including Anselm, Averroes, Maimonides, Avicenna, Aquinas, Scotus and Ockham. P-One PHI course or POI.

**PHI 241. Modern Philosophy. (3 h)**

A study of the works of influential 17th and 18th century European philosophers such as Descartes, Locke, Leibniz, Berkeley, and Hume, with a concentration on theories of knowledge and metaphysics. P-One PHI course or POI.

**PHI 280. Topics in Philosophy. (1-3 h)**

Seminar and/or lecture course in selected topics. May be repeated if course title differs. P-One PHI course or POI.

**PHI 331. Plato. (3 h)**

Detailed analysis of selected dialogues, covering Plato's most important contributions to moral and political philosophy, theory of knowledge, metaphysics, and theology. P-One PHI course or POI.

**PHI 332. Aristotle. (3 h)**

Study of the major texts, with emphasis on metaphysics, ethics, and theory of knowledge. P-One PHI course (232 or 331 strongly recommended) or POI.

**PHI 333. Hellenistic Philosophy. (3 h)**

Study of the Ancient Greek and Roman philosophical schools of the Hellenistic Period, focusing on the Stoics, Sceptics, and Epicureans. P-One PHI course or POI.

**PHI 337. Thomas Aquinas. (3 h)**

Study of some major texts, with a focus on metaphysics and philosophical theology. P-One PHI course (232 strongly recommended) or POI.

**PHI 341. Kant. (3 h)**

A study of Kant's principal contributions to metaphysics and the theory of knowledge. P-One PHI course (241 strongly recommended) or POI.

**PHI 342. Topics in Modern Philosophy. (3 h)**

Treatment of selected figures and/or themes in 17th and 18th century European philosophy. P-One PHI course (241 strongly recommended) or POI.

**PHI 352. 19th-Century European Philosophy: Hegel, Kierkegaard, Nietzsche. (3 h)**

Is there a way to think about the natural world that also makes sense of human life and history? Is anything gained, or lost, by thinking holistically about the world as a whole? Is a life dedicated to thinking about the world (and living accordingly) a way of avoiding authentic human life? What does it mean to live authentically? Does nihilism provide the answer or is it a form of avoidance? P - One PHI course or POI.

**PHI 353. Heidegger. (3 h)**

Heidegger early and late. Early Heidegger: the contrast between conformism and authenticity achieved through 'being-towards-death'; meaning through communal tradition. Late Heidegger: critique of modernity's reduction of everything to 'resource'; the ethics of 'dwelling' as our proper way of being in the world. P-One PHI course or POI.

**PHI 354. Wittgenstein. (3 h)**

A study of the work of Ludwig Wittgenstein on such topics as the picture theory of meaning, truth, skepticism, private languages, thinking, feeling, the mystical, and the ethical. P-One PHI course (221 strongly recommended) or POI.

**PHI 355. Contemporary Philosophy. (3 h)**

Study of the principal works of several representative 20th century philosophers. P-One PHI course (221 strongly recommended) or POI.

**PHI 356. Twentieth-Century European Philosophy. (3 h)**

Representative Issues: the 'disenchantment' and 'rationalization' of modernity, the character of modern technology, the possibility of mutual understanding in a multicultural world, the nature of 'dwelling'. Representative figures: Weber, Husserl, Korkheimer, Adorno, Marcuse, Heidegger, Gadamer, Arendt, Habermas. P-One PHI course of POI.

**PHI 360. Ethics. (3 h)**

Systematic examination of central ethical theories in the Western philosophical tradition. Such theories include Kantian deontology, utilitarianism, Aristotelian virtue ethics, and divine command theory. P-One PHI course or POI.

**PHI 361. Topics in Ethics. (3 h)**

One PHI course or POI.

**PHI 362. Social and Political Philosophy. (3 h)**

A systematic examination of the work of selected contemporary and traditional philosophers on topics such as the state, the family, distributive justice, property, liberty, and the common good. P-One PHI course or POI.

**PHI 363. Philosophy of Law. (3 h)**

Inquiry into the nature of law and its relation to morality. Classroom discussions of readings from the works of classical and modern authors focus on issues of contemporary concern involving questions of legal principle, personal liberty, human rights, responsibility, justice, and punishment. P-One PHI course or POI.

**PHI 364. Freedom, Action, and Responsibility. (3 h)**

Study of the nature of human freedom and related matters in the philosophy of action, metaphysics, and moral philosophy. P-One PHI course or POI.

**PHI 365. Philosophy of Love and Friendship. (3 h)**

Study of the historical and contemporary philosophical investigations of love and friendship. P - One PHI course or POI.

**PHI 366. Global Justice. (3 h)**

Does justice transcend national boundaries? Topics include citizenship, national sovereignty, war, human rights, humanitarian concerns, distribution of resources and burdens, and international law. P-One PHI course or POI.

**PHI 367. Philosophical Theories in Bioethics. (3 h)**

A study of the main philosophical approaches to contemporary bioethics. Each approach is examined critically and students explore how each approach informs analysis of contemporary issues in bioethics. P-One PHI course or POI.

**PHI 368. Concepts of Health & Disease. (3 h)**

Concepts of health, disease, and disability shape discussions in bioethics and health policy. This course examines and critically evaluates competing conceptions of health and disease. The implications of adopting different understandings of health and disease for bioethics and health policy are explored. P-One PHI course or POI.

**PHI 369. Philosophy and Psychology. (3 h)**

Examines philosophical issues relating to moral, social, behavioral, and/or cognitive psychology. Topics may include the existence and nature of moral character; bias, self deception, and denial; reasoning, intuition, and deliberation; and perception and consciousness. P - One PHI course or POI.

**PHI 370. Philosophy and Christianity. (3 h)**

Examination of the philosophical foundations of Christian thought and belief. Christian concepts of God and life everlasting, trinity, incarnation, atonement, prayer, sin, evil and obligation. P-One PHI course or POI.

**PHI 371. Aesthetics and the Philosophy of Art. (3 h)**

Covers such questions as: What is beauty? What is taste? What is art? Must art be beautiful? Can immoral art be good art? Readings may cover historical figures such as Plato or Kant, or may focus on contemporary writers. P-One PHI course or POI.

**PHI 372. Philosophy of Religion. (3 h)**

What is religion? Are the gods dead? Is God dead? Is religious belief a symptom of an underlying human weakness or biological process, or could it be a response to the sacred? Must believers rely on something less than knowledge? Are philosophical proofs the way to knowledge of God? What sort of problem is the "problem of evil" and what is its significance? How are religious beliefs like and unlike metaphysical, moral, and modern scientific beliefs? P - One PHI course or POI.

**PHI 373. Philosophy of Science. (3 h)**

Systematic and critical examination of major views concerning the methods of scientific inquiry, and the bases, goals, and implications of the scientific conclusions which result from such inquiry. P-One PHI course or POI.

**PHI 374. Philosophy of Mind. (3 h)**

Selection from the following topics: the mind-body problem; personal identity; the unity of consciousness; minds and machines; the nature of experience; action, intention, and the will. P-One PHI course or POI.

**PHI 375. Philosophy of Language. (3 h)**

Study of such philosophical issues about language as truth and meaning, reference and description, proper names, indexicals, modality, tense, the semantical paradoxes, and the differences between languages and other sorts of sign-systems. Also listed as LIN 375. P-One PHI course (221 strongly recommended) or POI.

**PHI 376. Epistemology. (3 h)**

The sources, scope and structure of human knowledge. Topics include: skepticism; perception, memory, and reason; the definition of knowledge; the nature of justification; theories of truth. P-One PHI course or POI.

**PHI 377. Metaphysics. (3 h)**

A survey of such issues as the nature and existence of properties, possibility and necessity, time and persistence, causation, freedom and determinism, and dualism versus materialism about the human person. P-One PHI course or POI.

**PHI 378. Philosophy of Space and Time. (3 h)**

Philosophical thought about space and time, from the Presocratics to the present. Topics may include the reality of the passage of time, paradoxes of change and motion, puzzles and the awareness of time, spacetime and relativity, and the possibility of time-travel. P-One PHI course or POI.

**PHI 379. Feminist Philosophy. (3 h)**

Examination of feminist approaches to philosophical theorizing. Topics may include feminist critiques of the scope and methods of mainstream philosophy, feminist approaches to ethics, epistemology and philosophy of language, and feminist conceptions of the self, sexuality, and moral agency. Also listed as WGS 240. P-one PHI course or POI.

**PHI 385. Seminar. (3 h)**

Offered by members of the faculty on specialized topics of their choice. With permission, may be repeated for credit. P-POI.

**PHI 391. Honors I. (1.5 h)**

Directed study and research in preparation for writing an honors thesis. P- Admission to the honors program in philosophy.

**PHI 392. Honors II. (1.5 h)**

Completion of the honors thesis begun in PHI 391. Graduation with honors in philosophy requires successful defense of the honors thesis in an oral examination conducted by at least two members of the department. P-PHI 391.

**PHI 395. Independent Study. (1-3 h)**

## Faculty

**Chair** Win-chiat Lee

**Associate Chair** Stavroula Glezakos

**Kenan Professor of the Humanities and Professor of Philosophy** Julian Young

**A.C. Reid Professor** Christian Miller

**Professors** Adrian Bardon, Ana S. Iltis, Ralph Kennedy, Win-chiat Lee

**Associate Professors** Emily Austin, Stavroula Glezakos, Patrick Toner

**Associate Teaching Professors** Adam J. Kadlac, Clark Thompson

**Part-time Associate Teaching Professor** Hannah M. Hardgrave

**Visiting Assistant Professors** Tyron Goldschmidt, Justin Jennings

## Philosophy, B.A.

### Requirements

Requires 27 hours. These must include:

Code	Title	Hours
	One course from each of the following groups	15
I.	Ancient Greek Philosophy	
II.	Modern Philosophy	
III.	Value Theory	
IV.	Metaphysics and Epistemology	
V.	Electives	

No more than six hours of 100-level courses may be counted towards the major.

No more than 3 hours of independent study may be counted towards the major.

Only one of PHI 220 or PHI 221 (Logic and Symbolic Logic) may be counted towards the major.

No senior philosophy major may take a 100-level course.

At least 21 hours of the major must be completed at Wake Forest; exceptions require approval by the department chair. A minimum GPA of 2.0 in all courses completed in philosophy at Wake Forest is required for graduation with the major.

Students who plan to major in philosophy are strongly encouraged to complete their courses in ancient Greek philosophy and modern philosophy prior to their senior year.

Majors intending to do graduate study in philosophy are strongly advised to take the following courses:

Code	Title	Hours
PHI 221	Symbolic Logic	3
PHI 360	Ethics	3
At least one of the following:		
PHI 376	Epistemology	3
or PHI 377	Metaphysics	

Such majors should work closely with their major adviser as they consider their additional course choices.

## I. Ancient Greek Philosophy

Code	Title	Hours
PHI 232	Ancient Greek Philosophy	3
PHI 331	Plato	3
PHI 332	Aristotle	3
PHI 333	Hellenistic Philosophy	3

## II. Modern Philosophy

Code	Title	Hours
PHI 241	Modern Philosophy	3
PHI 341	Kant	3
PHI 342	Topics in Modern Philosophy	3

## III. Value Theory

Code	Title	Hours
PHI 360	Ethics	3
PHI 361	Topics in Ethics	3
PHI 362	Social and Political Philosophy	3
PHI 364	Freedom, Action, and Responsibility	3
PHI 366	Global Justice	3
PHI 367	Philosophical Theories in Bioethics	3

## IV. Metaphysics and Epistemology

Code	Title	Hours
PHI 373	Philosophy of Science	3
PHI 374	Philosophy of Mind	3
PHI 375	Philosophy of Language	3
PHI 376	Epistemology	3
PHI 377	Metaphysics	3
PHI 378	Philosophy of Space and Time	3

## V. Electives

Code	Title	Hours
PHI 221	Symbolic Logic	3
PHI 235	Main Streams of Chinese Philosophy	3
PHI 237	Medieval Philosophy	3
PHI 337	Thomas Aquinas	3
PHI 352	19th-Century European Philosophy: Hegel, Kierkegaard, Nietzsche	3
PHI 353	Heidegger	3
PHI 354	Wittgenstein	3
PHI 355	Contemporary Philosophy	3
PHI 356	Twentieth-Century European Philosophy	3

PHI 363	Philosophy of Law	3
PHI 365	Philosophy of Love and Friendship	3
PHI 368	Concepts of Health & Disease	3
PHI 369	Philosophy and Psychology	3
PHI 370	Philosophy and Christianity	3
PHI 371	Aesthetics and the Philosophy of Art	3
PHI 372	Philosophy of Religion	3
PHI 379	Feminist Philosophy	3

## Honors

Majors with a GPA of at least 3.3 overall and at least 3.7 in philosophy are eligible to apply for entrance into the honors program in philosophy. Majors interested in applying should consult with the department chair in the second semester of their junior year. The departmental honors committee will consider all applications and notify successful candidates during the summer prior to their senior year. Completion of 15 hours in philosophy courses is prerequisite to beginning work in the honors program. Graduation with "Honors in Philosophy" requires successful completion of PHI 391 and PHI 392, a GPA at the time of graduation of at least 3.7 in philosophy and 3.3 overall, and completion and successful defense of an honors thesis in an oral examination conducted by at least two members of the department. The hours earned in PHI 391 and PHI 392 do not count towards the 27 hours required of all majors.

## Philosophy, Minor

### Requirements

The minor in Philosophy requires 15 hours. At least 9 of these hours must be earned in courses taken at Wake Forest at the 200-level or higher. Only one of PHI 220 and PHI 221 may be counted towards the minor. Students interested in minoring in philosophy should consult with the department about choosing an appropriate sequence of courses.

## Physics (PHY)

The program for each student majoring in physics is developed through consultation with the student's major adviser and may lead to either a bachelor of arts or a bachelor of science degree. The bachelor of arts degree requires a minimum of basic physics courses and allows a wide selection of electives related to the student's interests in other disciplines, such as medicine, law, and business. The bachelor of science degree is designed for students planning careers in physics.

While the physics major can be started in the sophomore year, students are encouraged to take PHY 123 (or PHY 113) and PHY 124 (or PHY 114) and MST 111 and MST 112 in the first year. If this sequence is followed, the physics major may be completed with considerable flexibility in exercising various options, such as the five-year BS/MS program. If physics is not taken in the first year, the degree requirements in physics may still be completed by the end of the senior year if a beginning course is taken in the sophomore year. A candidate for the 3-2 engineering program would also complete three years of the bachelor of science physics major program prior to transfer. (Consult the chair of the department for additional information on these five-year programs.)

No student may be a candidate for a degree with a major in physics with a grade less than C in General Physics without special permission of the department. Students must achieve a minimum GPA of 2.0 in physics courses for graduation. In addition, all major students, except BS Engineering, must take the ETS Major Field Test in Physics during their

senior year, or as determined by the department and communicated by the major adviser(s).

Physics courses satisfying Division V requirements must be taken at Wake Forest. Satisfactory completion of the laboratory work is required for a passing grade in all courses with a laboratory.

## Contact Information

Physics Department (<http://www.physics.wfu.edu/>)  
Olin Physical Laboratory 100, Box 7507  
Phone 336-758-5337

## Programs

### Majors

- B.A. in Physics
- B.S. in Physics
- B.S. in Biophysics

### Minor

- Minor in Physics

## Courses

### Physics (PHY)

#### PHY 105. Descriptive Astronomy. (4 h)

Introductory study of the universe, from the solar system to the galaxies. No lab.

#### PHY 109. Astronomy. (4 h)

An introductory study of the universe consisting of descriptive astronomy, the historical development of astronomical theories, and astrophysics. Knowledge of basic algebra and trigonometry is required. Lab-2 hours. (D)

#### PHY 109L. Astronomy Lab. (0-1 h)

#### PHY 110. Introductory Physics. (4 h)

A conceptual, non-calculus one-semester survey of the essentials of physics, including mechanics, wave motion, heat, sound, electricity, magnetism, optics, and modern physics. Not recommended for premedical, mathematics, or science students. A student who has credit for PHY 111, 113, 114, 123 or 124 or who is currently taking PHY 113, 114, 123 or 124 is not allowed to register for PHY 110. Lab-2 hours. (D, QR)

#### PHY 110L. Introductory Physics Lab. (0 h)

#### PHY 111. Mechanics Waves and Heat. (4 h)

Introduction to mechanics, wave motion, thermodynamics, and sound. Extensive use of algebra and trigonometry. Credit allowed for either PHY 111, 113 or 123 but not for more than one. Lab-2 hours. Available for transfer, AP, IB, or A-levels credit only; not approved for summer school elsewhere. (QR)

#### PHY 113. General Physics I. (4 h)

Essentials of mechanics, wave motion, heat, and sound treated with some use of calculus. Recommended for science, mathematics, and premedical students. Credit allowed for either PHY 111, 113 or 123 but not for more than one. Lab-2 hours. C-MST 111 or 112 or equivalent. (D, QR)

#### PHY 113L. General Physics Lab. (0 h)

#### PHY 114. General Physics II. (4 h)

Essentials of electricity, magnetism, optics, and modern physics treated with some use of calculus. Recommended for science, mathematics, and premedical students. Credit allowed for either PHY 114 or 124, but not both. Lab-2 hours. P-MST 111 or 112 or equivalent and PHY 111, 113, or 123. (D, QR)

#### PHY 114L. General Physics II Lab. (0 h)

#### PHY 115. The Physics of Music. (4 h)

Introduction to the physics of music, using algebra and trigonometry. Basic physical concepts associated with motion, force and energy are applied to ideal vibrating systems, resonant systems, strings, and sound waves. Uses of these concepts are explored in relation to musical instruments the human voice, signal processing and room acoustics (D, QR).

#### PHY 120. Physics and Chemistry of Environment. (4 h)

Covers the basic physical and chemical processes in the earth's atmosphere, biosphere and the oceans. Also listed as PHY 120. (D, QR)

#### PHY 120L. Physics and Chemistry of the Environment Lab. (0 h)

C-PHY 120.

#### PHY 123. General Physics I - Studio Format. (4 h)

In-depth introduction to mechanics, wave motion, heat, and sound treated with use of calculus and employing advanced techniques and interactive learning. Recommended for potential physics majors. Credit allowed for either PHY 111 or 113 or 123, but not more than one. Lab - 2 hours. C-MST 111 or 112 or equivalent. (D, QR)

#### PHY 123L. General Physics I - Studio Format Lab. (0 h)

#### PHY 124. General Physics II - Studio Format. (4 h)

In-depth introduction to electricity, magnetism, optics, and modern physics treated with use of calculus and employing advanced techniques and interactive learning. Recommended for potential physics majors. Credit allowed for either PHY 114 or 124, but not both. Lab - 2 hours. P-MST 111 or 112 or equivalent and PHY 111 or 113 or 123. (D, QR)

#### PHY 124L. General Physics II - Studio Format Lab. (0 h)

#### PHY 215. Elementary Modern Physics. (3 h)

Development of 20th-century physics and an introduction to quantum ideas. The physics department recommends that PHY 215 be taken concurrently with PHY 265. P-PHY 114 or 124 and MST 111 or MST 112. (D, QR)

#### PHY 230. Electronics. (3 h)

Introduction to the theory and application of transistors and electronic circuits. Lab-three hours. P - PHY 114 or 124. (D, QR)

#### PHY 262. Mechanics. (3 h)

Study of the equations of motion describing several kinds of physical systems: velocity-dependent forces; damped and forced simple harmonic motion; orbital motion; inertial and non-inertial reference frames. Includes extensive use of computers. P-PHY 113 or 123, and MST 205 or MST 251, and C-MST 113. (D, QR)

#### PHY 265. Intermediate Laboratory I. (1 h)

Experiments on modern physics. P or C-PHY 215.

#### PHY 266. Intermediate Laboratory II. (1 h)

Experiments on mechanics, electronics, and computer simulations. P or C-PHY 262.

**PHY 301. Physics Seminar. (0.5 h)**

Discussion of contemporary research, usually with visiting scientists. Attendance required of junior and senior physics majors. Does not count toward the six hours of electives required for the BA major. Pass/Fail only.

**PHY 307. Biophysics. (3 h)**

Introduction to the structure, dynamic behavior, and function of DNA and proteins, and a survey of membrane biophysics. The physical principles of structure determination by X-ray, NMR, and optical methods are emphasized. Also listed as PHY 307. P-BIO 114 or 214, PHY 113 or 123, PHY 114 or 124, or POI. BIO 150, 150L, 160, and 160L may be substituted for BIO 114 and 214.

**PHY 310. Extragalactic Astronomy and Cosmology. (3 h)**

Topics covered include galactic structure, models for galaxies and galaxy formation, the large scale structure of the universe, the big bang model of the universe, physical processes such as nucleosynthesis in the early universe, and observational cosmology. P-PHY 262 and MST 205 or 251. (D)

**PHY 320. Physics of Biological Macromolecules. (3 h)**

The physics of large biologically important molecules, especially proteins and nucleic acids. Topics covered include the physical basis of biomolecular structure, the energetics and statistical mechanics of biomolecular dynamics, and the electrostatics and solvation of biomolecules. Designed for students with biochemistry, chemistry, or physics backgrounds. P-PHY 113 or 123, 114 or 124. (D)

**PHY 323. Computational Biophysics Laboratory. (1 h)**

Application of techniques in molecular modeling, including energy minimization, molecular dynamics simulation, and conformational analysis. C-PHY 320 or POI.

**PHY 325. Biophysical Methods Laboratory. (1.5 h)**

Experiments using various biophysical techniques such as electron paramagnetic resonance, atomic force microscopy, stopped-flow absorption spectroscopy, X-ray diffraction, and gel electrophoresis. C-PHY 307.

**PHY 335. Computational Physics. (3 h)**

An introduction to finding numerical solutions to scientific problems. Topics include understanding computational errors, differentiation, integration, interpolation, root finding, random numbers, linear systems, Fourier methods, and the solution of ODEs and PDEs. There is no computer programming prerequisite. Credit will not be given for both PHY 335 and CSC 355/MST 355. P-MST 113 and 205 (or instead of MST 205, P-MST 121 and 251), or POI.

**PHY 337. Analytical Mechanics. (1.5 h)**

The Lagrangian and Hamiltonian formulations of mechanics with applications. Taught in the first half of the fall semester. P-PHY 262, MST 113 and 205 (or instead of MST 205, P-MST 121 and 251).

**PHY 339. Electricity and Magnetism. (1.5 h)**

Electrostatics, magnetostatics, dielectric and magnetic materials, Maxwell's equations and applications to radiation, relativistic formulation. PHY 339 is taught in the second half of the fall semester, following PHY 337. These should be taken in sequence. P-PHY 114 or 124, MST 113 and MST 205 or 251. (D)

**PHY 340. Electricity and Magnetism. (3 h)**

Electrostatics, magnetostatics, dielectric and magnetic materials, Maxwell's equations and applications to radiation, relativistic formulation. PHY 340 is taught in the spring semester after PHY 339. These should be taken in sequence. P-PHY 339. (D)

**PHY 341. Thermodynamics and Statistical Mechanics. (3 h)**

Introduction to classical and statistical thermodynamics and distribution functions. Also listed as CHM 341. Also offered in Salamanca. P-PHY 215 and MST 113. (D)

**PHY 343. Quantum Physics. (3 h)**

Basic quantum theory and applications including the time-independent Schrodinger equation, formalism and Dirac notation, the hydrogen atom, spin, identical particles, and approximation methods. P-PHY 215, MST 113 and 205 (or instead of MST 205, P-MST 121 and 251). (D)

**PHY 344. Quantum Physics. (3 h)**

Basic quantum theory and applications including the time-independent Schrodinger equation, formalism and Dirac notation, the hydrogen atom, spin, identical particles, and approximation methods. P-PHY 343. (D)

**PHY 347. Intellectual Property in Science and Engineering. (1 h)**

Introduction to the process of creating and protecting intellectual property, with discussion of economic impact of IP rulings and concept of a non-disclosure agreement. Working with representative examples from physics, engineering, and biotechnology, the students, working in small teams, will analyze and create invention disclosures, patent applications, and issued patents. Recommended background: three courses from the major tracks in physics, chemistry, biology, or computer science.

**PHY 352. Physical Optics and Optical Design. (4 h)**

Interaction of light with materials; diffraction and coherent optics; ray trace methods of optical design. Lab-3 hours. P-PHY 114 or 214 and PHY 215. (D)

**PHY 352L. Physical Optics Lab. (0 h)****PHY 354. Introduction to Solid State Physics. (3 h)**

A survey of the structure, composition, physical properties, and technological applications of condensed matter. P-PHY 343. (D)

**PHY 355. Exotic Materials. (1.5 h)**

Study of materials that express exotic properties that are derived from some aspect of the system's dimensionality, introduces the thermal, electrical, optical and magnetic properties of exotic materials systems. Discusses simple models for the structure-property relationships for a wide range of of nanoscale and low-dimensional systems. C - PHY 343.

**PHY 356. Electron-Imaging Sciences. (1.5 h)**

Introduces the theory and application of the electron imaging systems: transmission electron microscopy (TEM) and scanning electron microscopy (SEM). Focuses on basic materials science though some biological materials will be covered. Taught as a series of lectures followed by laboratories. P - PHY 215.

**PHY 357. Scanning Probes. (1.5 h)**

Examines the theory and application of scanning tunneling microscopy and atomic force microscopy (STM/AFM). Introduces how each type of imaging works, how to model spectroscopic data, and how to use each microscope. Students will image using the STM and AFM as well as take and reduce spectroscopy data using models built in Maple or Mathematica. P - PHY 215.

**PHY 358. Kinetics of Materials. (1.5 h)**

Study of driving forces for atomic and ionic motion within solids leading to a range of materials properties from work hardening to phase transformations and formation. Atomic-level models for diffusion will be introduced as well as techniques and examples of the solution to the diffusion equation. Complements the traditional thermodynamics course. C - PHY 341 and 354 or POI.

**PHY 361. Biophysics Seminar. (1 h)**

Seminal and current publications in biophysics will be studied. Each week a member of the class will make an oral presentation on a chosen publication and will lead the ensuing discussion.

**PHY 363. Condensed Matter Seminar. (1 h)**

Seminal and current publications in condensed matter physics are studied. Each week a member of the class makes an oral presentation on a chosen publication and leads the ensuing discussion.

**PHY 381. Research. (1.5-3 h)**

Library, conference, computation, and laboratory work performed on an individual basis. May be repeated for credit.

**PHY 385. Bioinformatics. (3 h)**

Introduction to computational approaches essential to modern biological inquiry. Approaches may include large biological dataset analyses, sequence similarity and motif searches, and analysis of high-throughput genomic technologies. Emphasizes interdisciplinary interaction and communication. Also listed as CSC 385 and PHY 385. P-CSC 201 or 221 (and BIO 150, 150L, 160, and 160L if taken as BIO 385) or POI.

**PHY 391. Special Topics in Physics. (1-4 h)**

Courses in selected topics in physics. May be repeated if course content differs.

**PHY 392. Special Topics in Physics. (1-4 h)**

Courses in selected topics in physics. May be repeated if course content differs.

## Faculty

**Chair** Daniel Kim-Shapiro

**Professor Harbert Family Distinguished Chair for Excellence in Teaching and Scholarship** Daniel Kim-Shapiro

**Professor and Wright Family Endowed Chair in Physics** Timo Thonhauser  
**Professor and Associate Provost for Research and Scholarship**

**Activities** Keith Bonin

**Professors** Paul R. Anderson, David L. Carroll, Martin Guthold, Natalie A. W. Holzwarth, Jed Macosko

**Denton Family Faculty Fellow, Associate Chair, and Professor** Oana D. Jurchescu

**Scott Family Faculty Fellow and Professor** Fred Salsbury

**Research Professors** George Holzwarth, George Eric Matthews, William Kerr, Richard T. Williams

**Emeritus Professor** Howard Shields

**Associate Professors** Eric D. Carlson, Samuel Cho, Gregory B. Cook

**Assistant Professors** Ilaria Bargigia, Ajay Ram Srimath Kandada, Stephen M. Winter

**Research Associate Professors** Swati Basu, Kamil Burak Ücer

**Associate Teaching Professor** Jack Dostal

**Adjunct Professor** John D. Bourland, Michale Munley, Mark W. Roberson, Peter Santago

**Adjunct Assistant Professor** Adam Hall

**Affiliate Assistant Professor** Lauren Lowman

## Biophysics, B.S.

### Requirements

Requires 23.5 hours in physics and must include the following courses:

Code	Title	Hours
<b>Required Major Courses</b>		
PHY 123	General Physics I - Studio Format	4

or PHY 113	General Physics I	
or PHY 111	Mechanics Waves and Heat	
PHY 124	General Physics II - Studio Format	4
or PHY 114	General Physics II	
PHY 215	Elementary Modern Physics	3
PHY 230	Electronics	3
PHY 262	Mechanics	3
PHY 265	Intermediate Laboratory I	1
PHY 266	Intermediate Laboratory II	1
PHY 381	Research (for a minimum of 1.5 hours) <sup>*,**</sup>	1.5-3
Select two of the following:		6-8
PHY 307	Biophysics	
& PHY 325	and Biophysical Methods Laboratory	
PHY 320	Physics of Biological Macromolecules	
& PHY 323	and Computational Biophysics Laboratory	
PHY 341	Thermodynamics and Statistical Mechanics <sup>*</sup>	
or CHM 341	Physical Chemistry I	
PHY 385	Bioinformatics	
BIO 384	Molecular Evolution	
CSC 387	Computational Systems Biology	

In addition, Graduate courses in BME or medical physics may also be substituted with permission of the instructor, office of academic advising, advisor and chair

Co-Requirements		
MST 113	Multivariable Calculus <sup>***</sup>	4
MST 205	Introduction to Linear Algebra and Differential Equations <sup>***</sup>	4
or MST 121 & MST 251	Linear Algebra I and Ordinary Differential Equations	
CHM 111 & 111L	College Chemistry I and College Chemistry I Lab	4
CHM 122 & 122L	Organic Chemistry I and Organic Chemistry I Lab	4
CHM 280	College Chemistry II	3
BIO 150 & 150L	Biology I and Biology I Lab	4
BIO 160 & 160L	Biology II and Biology II Lab	4
BIO/CHM 370	Biochemistry I: Macromolecules and Metabolism	3

<sup>\*</sup> Substitutions for PHY 341 and PHY 381 will count toward the required hours in physics.

<sup>\*\*</sup> Students may substitute CHM 391/ CHM 392 or BIO 391/ BIO 392/BIO 393/ BIO 394 for PHY 381 in consultation with their adviser. Substitutions for PHY 341 and PHY 381 will count toward the required hours in physics.

<sup>\*\*\*</sup> Students must earn a minimum C grade in MST 113 as well as MST 205 or MST 121/MST 251.

Students are advised to complete math requirements as early as possible. Students are also encouraged to take at least one class in Computer Science.

No student may be a candidate for a degree with a major in biophysics with a grade less than C in General Physics without special permission of



the department. Students must achieve a minimum GPA of 2.0 in physics courses for graduation.

## Honors

Highly qualified majors are invited by the department to apply for admission to the honors program in physics through the major adviser. To be graduated with the designation "Honors in Physics," students must:

- pass PHY 381
- write a paper on the results of the research in that course
- pass an oral exam on the research and related topics given by a committee of three physics faculty members
- obtain a GPA of at least 3.3 in physics and 3.0 overall

## Physics, B.A.

### Requirements

Requires 25 hours in physics and must include the following courses:

Code	Title	Hours
<b>Required Major Courses</b>		
PHY 123 or PHY 113 or PHY 111	General Physics I - Studio Format General Physics I Mechanics Waves and Heat	4
PHY 124 or PHY 114	General Physics II - Studio Format General Physics II	4
PHY 215	Elementary Modern Physics	3
PHY 230	Electronics	3
PHY 262	Mechanics	3
PHY 265	Intermediate Laboratory I	1
PHY 266	Intermediate Laboratory II	1
Select 6 hours of any other 300-level courses in the department*		6
<b>Co-Requirement</b>		
MST 113	Multivariable Calculus**	4
MST 205 or MST 251	Introduction to Linear Algebra and Differential Equations** Ordinary Differential Equations	4

\* Except PHY 381. Students may substitute CHM 341 for PHY 341.

\*\* Students must earn a minimum C grade in MST 113, MST 205 or MST 251.

MST 251 can substitute for MST 205 for the MST requirement for the BA degree, but not for specific course pre- or co-requirements, unless already specified in the course description. Students are advised to complete math requirements as early as possible. Students are also encouraged to take at least one class in Computer Science.

No student may be a candidate for a degree with a major in physics with a grade less than C in General Physics without special permission of the department. Students must achieve a minimum GPA of 2.0 in physics courses for graduation.

## Honors

Highly qualified majors are invited by the department to apply for admission to the honors program in physics through the major adviser. To be graduated with the designation "Honors in Physics," students must:

- pass PHY 381
- write a paper on the results of the research in that course
- pass an oral exam on the research and related topics given by a committee of three physics faculty members
- obtain a GPA of at least 3.3 in physics and 3.0 overall

## Physics, B.S.

### Requirements

Requires 38 hours in physics and must include the following courses:

Code	Title	Hours
<b>Required Major Courses</b>		
PHY 123 or PHY 113 or PHY 111	General Physics I - Studio Format General Physics I Mechanics Waves and Heat	4
PHY 124 or PHY 114	General Physics II - Studio Format General Physics II	4
PHY 215	Elementary Modern Physics	3
PHY 230	Electronics	3
PHY 262	Mechanics	3
PHY 265	Intermediate Laboratory I	1
PHY 266	Intermediate Laboratory II	1
PHY 301	Physics Seminar (at least twice)	1
PHY 337	Analytical Mechanics	1.5
PHY 339	Electricity and Magnetism	1.5
PHY 340	Electricity and Magnetism	3
PHY 341	Thermodynamics and Statistical Mechanics*	3
PHY 343	Quantum Physics	3
PHY 344	Quantum Physics	3

The remaining hours may be satisfied with any other 300-level course in the department.

#### Co-Requirements

MST 113	Multivariable Calculus**	4
MST 205 or MST 121 & MST 251	Introduction to Linear Algebra and Differential Equations** Linear Algebra I and Ordinary Differential Equations	4
One additional course at the 200 level in statistics, mathematics, or computer science other than independent study courses is required		3-4

\* Students may substitute CHM 341 for PHY 341.

\*\* Students must earn a minimum C grade in MST 113, MST 205 or MST 121/MST 251.

Students are advised to complete math requirements as early as possible. Students are also encouraged to take at least one class in Computer Science.

No student may be a candidate for a degree with a major in physics with a grade less than C in General Physics without special permission of the department. Students must achieve a minimum GPA of 2.0 in physics courses for graduation.

## Honors

Highly qualified majors are invited by the department to apply for admission to the honors program in physics through the major adviser. To be graduated with the designation "Honors in Physics," students must:

- pass PHY 381
- write a paper on the results of the research in that course
- pass an oral exam on the research and related topics given by a committee of three physics faculty members
- obtain a GPA of at least 3.3 in physics and 3.0 overall

## Physics, Minor

### Requirements

Requires 17 hours in Physics, which must include:

Code	Title	Hours
PHY 111	Mechanics Waves and Heat	4
or PHY 113	General Physics I	
or PHY 123	General Physics I - Studio Format	
PHY 114	General Physics II	4
or PHY 124	General Physics II - Studio Format	
PHY 215	Elementary Modern Physics	3
PHY 262	Mechanics	3
Pre- or Co-requisite Courses:		
MST 113	Multivariable Calculus	4
MST 205	Introduction to Linear Algebra and Differential Equations	4
or MST 251	Ordinary Differential Equations	

Students may substitute CHM 341 for PHY 341 toward the required hours in physics.

MST 251 can substitute for MST 205 for the MST requirement for the minor, but not for specific course pre- or co-requirements, unless already specified in the course description.

Students interested in the minor should contact the faculty member responsible for advising physics majors. (Inquire in Olin Physical Laboratory, Room 100.)

## Politics and International Affairs (POL)

In its broadest conception, the aim of the study of politics is to understand the way in which policy for a society is formulated and executed and to understand the moral standards by which policy is or ought to be set. This center of interest is often described alternatively as the study of power, of government, of the state, or of human relations in their political context. For teaching purposes, the study of politics has been divided by the department into the following fields:

1. American politics
2. Comparative politics
3. Political theory
4. International politics

Introductory courses in these fields provide broad and flexible approaches to studying political life.

## Five-Year BA/MA Degree

Politics and international affairs majors who minor in Latin-American studies also have the opportunity to pursue a five-year cooperative BA/MA degree program at Georgetown University in Washington, D.C.

A student who selects politics and international affairs to fulfill the Division IV requirement must take one of the following courses:

Code	Title	Hours
Select one of the following:		
POL 113	American Government and Politics	
POL 114	Comparative Government and Politics	
POL 115	Political Theory	
POL 116	International Politics	

Students who are not majors may take upper-level courses as electives without having had lower-level courses, unless a prerequisite is specified.

## Contact Information

Department of Politics and International Affairs (<http://college.wfu.edu/politics/>)

Kirby Hall 314A, Box 7568

Phone 336-758-5449

## Programs Major

- B.A. in Politics and International Affairs

## Minor

- Minor in Politics and International Affairs

## Courses

### Politics and International Affairs (POL)

#### POL 113. American Government and Politics. (3 h)

The nature of politics, political principles, and political institutions, with emphasis on their application to the United States. (D)

#### POL 114. Comparative Government and Politics. (3 h)

An analysis of political institutions, processes, and policy issues in selected countries. Case studies will be drawn from Africa, Asia, Europe, and Latin America. (CD, D)

#### POL 115. Political Theory. (3 h)

Introduces the major concepts, questions, and ideas from across the history of political thought, to examine the nature of politics and the moral and ethical aspects of political life. (D)

#### POL 116. International Politics. (3 h)

Surveys the forces which shape relations among states and some of the major problems of contemporary international politics. (CD, D)

**POL 202. Political Structures of Present-day Spain. (3 h)**

A study of the various political elements which affect the modern Spanish state. Counts as an elective for the Spanish major.

**POL 210. Topics In United States Politics and Policy. (3 h)**

An intensive study of one or more major problems in contemporary United States politics and policy. Course may be retaken for credit if topic varies.

**POL 211. Political Parties, Voters, and Elections. (3 h)**

An examination of party competition, party organizations, the electorate and electoral activities of parties, and the responsibilities of parties for governing.

**POL 212. U.S. Policymaking in the Twenty-first Century. (3 h)**

Examines the contemporary United States policymaking process. Special attention to ways issues become important and contributions of different political actors, institutions, and ideologies in the passage or rejection of policy proposals. Considers a range of social, economic, and regulatory policies.

**POL 213. Economic Inequality and American Politics. (3 h)**

Examines patterns of economic inequality in the United States, weighs competing causal explanations for changing distributions of income and wealth, and investigates the effects of this inequality on American democracy.

**POL 214. Latino/a Political Behavior. (3 h)**

Examines the contemporary role of Latinos as a minority group in the U.S. with emphasis on U.S. immigration policies. Latina/o political participation and identity, and interracial coalition formations. Service-learning course. (CD)

**POL 215. Citizen and Community. (3 h)**

An examination of the role and responsibilities of citizens in democratic policymaking. Includes discussion of democratic theory, emphasis on a policy issue of national importance (i.e. poverty, crime, environment), and involvement of students in projects that examine the dimension of the issue in their community. Service Learning.

**POL 216. U.S. Social Welfare Policy. (3 h)**

An analysis of U.S. social policymaking and policy outcomes on issues such as welfare, education, health care, and Social Security, with an emphasis on historical development and cross-national comparison.

**POL 217. Politics and the Mass Media. (3 h)**

Exploration of the relationship between the political system and the mass media. Two broad concerns will be the regulation of the mass media and the impact of media on political processes and events.

**POL 218. Congress and Policymaking. (3 h)**

An examination of the composition, authority structures, external influences, and procedures of Congress with emphasis on their implications for policymaking in the United States.

**POL 219. Political Participation. (3 h)**

Examines political participation in the United States, with emphasis on electoral and non-electoral avenues through which individuals and groups wield influence in politics and government, including voting, interest groups, and social movements. Service-learning course.

**POL 220. The American Presidency. (3 h)**

Explores the interaction of the presidential office and the individual contemporary presidents in an evolving political context.

**POL 221. State Politics. (3 h)**

An examination of institutions, processes, and policies at the state level, with emphasis on the different patterns of governance in the various states and the consequences of the recent revitalization of state governments.

**POL 222. Urban Politics. (3 h)**

Examines the political structures and processes in American cities and suburbs as they relate to the social, economic, and political problems of the metropolis. Service-learning Course. (CD)

**POL 223. African American Politics. (3 h)**

A survey of selected topics, including African American political participation, political organizations, political leadership, and political issues. It will also show the relationship of these phenomena to American political institutions and processes as a whole.

**POL 224. Racial and Ethnic Politics. (3 h)**

Analysis of the impact and interactions of African Americans, Latinos, Asian Americans, American Indians, and Whites in U.S. politics, with special emphasis on the racial identity development, minority representation, and the U.S. criminal justice system. Service-learning course. (CD)

**POL 225. American Constitutional Law: Separation of Powers and the Federal System. (3 h)**

Analysis of Supreme Court decisions affecting the three branches of the national government and federal/state relations.

**POL 226. American Constitutional Law: Civil Rights and Liberties. (3 h)**

Analysis of Supreme Court decisions involving the Bill of Rights and the Fourteenth Amendment of the U.S. Constitution.

**POL 227. Politics, Law, and Courts. (3 h)**

Analysis of the intersection of law and democratic politics through consideration of judicial selection, judicial decision making, and the roles of various legal actors, including judges, lawyers, and juries.

**POL 228. Politics of Public Education. (3 h)**

Introduces students to some of the most popular and contentious contemporary education policy debates and discusses what the U.S. school system tells us about the country's fundamental political commitments.

**POL 229. Women, Gender, and Politics. (3 h)**

Examines classical and contemporary studies of how gender structures politics, including the political participation of women and other gendered social groups, as well as current policy issues.

**POL 231. Western European Politics. (3 h)**

Comparative analysis of political institutions, processes, and policy issues in selected West European countries. Special attention will be given to case studies involving Great Britain, France, Germany, Italy and to the process of European integration.

**POL 232. Politics in Russia and Eastern Europe. (3 h)**

Analysis of the political, economic, and social patterns of the region, emphasizing the dynamics and divergent outcomes of the regime transitions after the fall of communism in Central and Eastern Europe and the former Soviet Union.

**POL 233. The Politics of Modern Germany. (3 h)**

Study of the historical legacy, political behavior, and governmental institutions of contemporary Germany.

**POL 234. United Kingdom Politics in a Global Age. (3 h)**

Introduces the nature and content of contemporary United Kingdom politics by placing those politics in a wider analysis of United Kingdom history, society, and international positions. (CD)

**POL 235. European Integration. (3 h)**

Combines different approaches to the study of Europe by examining European integration-as highlighted by the development of the European Union-through the lenses of history, politics, culture, and economics.

**POL 236. Government and Politics in Latin America. (3 h)**

Comparative analysis of the institutions and processes of politics in the Latin American region. (CD)

**POL 237. The Comparative Politics of Welfare States. (3 h)**

Examines the various ways in which the U.S. and other advanced industrial societies respond to a number of shared "welfare issues," and craft public policy in areas such as pensions, health care, anti-poverty programs, family stability, and immigration.

**POL 238. Comparative Economic Development and Political Change. (3 h)**

An overview of the relationship between economic development, socio-structural change, and politics since the creation of the international capitalist system in the sixteenth century. The course is organized around case studies of industrialized democracies, evolving Communist systems and command economies, and "Third World" countries.

**POL 239. State, Economy, and International Competitiveness. (3 h)**

Introduces a range of important case studies of national economic performance to illustrate the role of public policy in economic performance in a number of leading industrial economies (the U.S., United Kingdom, Germany, Sweden, China, and Japan).

**POL 240. Politics of Human Rights. (3 h)**

Looks at the policy of dilemmas that both restored and new democracies face when dealing with past human rights violations and how they engage in structuring the domain of human rights in a changed global environment. (CD)

**POL 241. Contemporary India. (3 h)**

Examines the opportunities and constraints facing modern India across a range of issues including politics, international relations, economics, religion, caste and the environment.

**POL 242. Topics in Comparative Politics. (3 h)**

An intensive study of one or more major problems in contemporary comparative politics. Course may be retaken for credit if topic varies.

**POL 243. Corruption. (3 h)**

This course addresses the politics of appropriation of public resources for private gain, with a focus on why corruption levels vary across countries, why people choose to participate in corruption, and the effects of corruption on politics and the economy.

**POL 244. Politics and Literature. (3 h)**

Examines how literature can extend knowledge of politics and political systems. Considers the insights of selected novelists. Thematic and regional focus of the course will vary with instructor.

**POL 245. Ethnonationalism. (3 h)**

This course is concerned with the role of ethnicity in world politics. It focuses on both theoretical and substantive issues relating to: (a) the nature of ethnicity and ethnic group identity; (b) the sources of ethnic conflict; (c) the politics of ethnic conflict; (d) the policy management of ethnic conflict; and (e) international intervention in ethnic conflict.

**POL 246. Politics and Policies in South Asia. (3 h)**

A survey of major issues relevant to politics and policy in India, Pakistan, Bangladesh, and Sri Lanka. (CD)

**POL 247. Islam and Politics. (3 h)**

Explores the interrelationship of Islam and politics in the contemporary world/ Deals with Islam as a political ideology which shapes the structure of political institutions and behavior. Looks at Islam in practice by examining the interaction between Islam and the political systems of Iran, Pakistan, Saudi Arabia and others. (CD)

**POL 248. Chinese Politics. (3 h)**

A survey of the political institutions and processes in China (People's Republic of China and Republic of China). Emphasis on group conflict, elites, ideology, as well as current policy changes in the process of modernization.

**POL 250. Afghanistan, Pakistan, Iraq and U.S. Policy since 2001. (3 h)**

Broadly addresses the phenomena of U.S. involvement in two ongoing conflicts-the Afghanistan war and the Iraq war. Focuses on the respective domestic and international politics and policies of the four main actors relevant to the conflicts: U.S., Afghanistan, Pakistan, and Iraq.

**POL 251. Politics of Forced Migration. (3 h)**

Addresses major questions about forced migration in international politics, such as: What causes people to flee their homes? What are the effects of forced displacement on the host communities? How should considerations of human rights and international law affect our understanding of forced migration?.

**POL 252. Topics in International Politics. (3 h)**

An intensive study of one or more major problems of contemporary international politics. Course may be retaken for credit if topic varies.

**POL 253. International Political Economy. (3 h)**

Analyzes major issues in the global political economy including theoretical approaches to understanding the tension between politics and economics, monetary and trade policy, North-South relations, environmentalism, human rights and democratization.

**POL 254. U.S. Foreign Policy. (3 h)**

Analyzes the historical and theoretical perspectives shaping U.S. engagement with the world past and present. Applies this understanding to current problems in U.S. foreign policy.

**POL 255. Terrorism and Asymmetric Conflict. (3 h)**

A historical survey and analysis of terrorism and other forms of political violence, such as insurgency and guerrilla warfare involving state and non-state actors. Focuses on a variety of cases along with and examination of the challenges of counter-terrorism and counter-insurgency in the contemporary global system.

**POL 256. International Security. (3 h)**

Explores various theoretical approaches to security studies and contemporary security issues, with special attention to domestic variables, the use of force, strategic culture, weapons of mass destruction, the political economy of national security, and terrorism.

**POL 257. Politics of International Development. (3 h)**

Examines why some nations develop at a quite fast pace while others - even when rich in natural resources - don't. Explores the impact of colonial history, state-formation, civil conflicts, governance issues, and rising powers on economic growth and development.

**POL 258. International Relations of South Asia. (3 h)**

Examines the foreign policy decision making in India, Pakistan, Bangladesh and Sri Lanka vis-a-vis each other and major powers such as the U.S., Russia, and China.

**POL 259. Palestine and the Arab-Israeli Conflict. (3 h)**

Explores the nature and scope of the conflict with particular emphasis on the time period post-1967 and the respective policies of the three most significant actors in the conflict: the U.S., Israel and Palestine.

**POL 260. United States and East Asia. (3 h)**

An analytical survey of United States interaction with East Asia, with special emphasis on the strategic security and the political economy of the region. (CD)

**POL 261. International Law. (3 h)**

Analyzes major issues in public international law including sources of international law, state sovereignty, territorial jurisdiction, treaties, peaceful settlement of disputes, human rights, and the relationship between international law and domestic law.

**POL 262. International Organizations. (3 h)**

A survey of the philosophy, principles, organizational structure, and decision-making procedures of international organizations. In addition to the United Nations system, this course will analyze various international organizations in issues such as collective security, trade, economic development, human rights protection, and the environment.

**POL 263. U.S. Foreign Policy in the Middle East. (3 h)**

A critical analysis of U.S. foreign policy with respect to the Middle East since the Second World War. This course utilizes a case study method of instruction.

**POL 264. Moral Dilemmas in International Politics. (3 h)**

Examines moral dilemmas in international politics with reference to theories and cases. Topics include just war doctrine, responsibility of rich countries toward poor countries, exportability of capitalism and democracy, and legitimacy of humanitarian intervention.

**POL 266. Modern Civil Wars. (3 h)**

Examines and assesses competing theories of civil war, including economic, ethnic, religious, and ideological explanations. It also addresses dilemmas raised by civil war such as the spread of HIV/AIDS, the proliferation of private security companies, and the abuse of humanitarian aid.

**POL 267. Intelligence and International Politics. (3 h)**

Explores various facets of the world of intelligence and espionage in international politics, including intelligence collection and analysis, covert action, counterintelligence, the role of foreign intelligence agencies the relationship of the intelligence community to other political institutions, and important ethical issues and controversies in the field of intelligence today.

**POL 268. International Conflict Resolution. (3 h)**

Explores various approaches to conflict resolution through readings, case studies, and simulations. Issues include: negotiation and mediation, dealing with war criminals, tradeoffs between justice and peace, and the role of the international community.

**POL 269. Topics in Political Theory. (3 h)**

An intensive study of one or more major topics in political theory. Course may be retaken for credit if topic varies.

**POL 270. Ethics and Agency. (3 h)**

Explores the question of agency in relation to ethics with attention to practices of ethics that focus on judgment. Selected writings from Aristotle, Arendt, and Foucault.

**POL 271. Classical Political Thought. (3 h)**

Examination of the nature and goals of classical political theorizing, with attention to its origins in ancient Athens and its diffusion through Rome. Representative writers include Plato, Aristotle, and Cicero.

**POL 272. Democratic Theory. (3 h)**

Examination of the theoretical underpinnings of democracy and some of the critiques of those foundations. Focus will be on understanding some of the major theories of democracy and on how key democratic concepts are defined differently within these various traditions.

**POL 273. Marx, Marxism and Post-Marxism. (3 h)**

Examines Marx's early humanistic writings, his later philosophy, the vicissitudes of 20th-century Marxism and attempts to reorient Marx's theory in light of developments in contemporary political thought and practice.

**POL 274. Arab and Islamic Political Thought. (3 h)**

Examines the history, basic concepts, central questions and preoccupations of political thought in the Arab region, while critically analyzing what it means to engage political theory comparatively. (CD)

**POL 275. American Political Thought. (3 h)**

Examines texts from the founding to the present that consider debates over the Constitution and the power of government; liberal and republican theories of citizenship; race, class and gender inequality; tensions between diversity and national identity; theories of justice; and the development of progressive, conservative, and libertarian political ideologies in the United States.

**POL 276. Modern Political Thought. (3 h)**

Examines political thought from the 19th century to the present with a focus on the relationship between ethics and politics. Topics include the nature of the good life, freedom, and the political society that makes them possible.

**POL 277. Feminist Political Thought. (3 h)**

Introduction to feminist thought and its implications for the study and practice of political theory. Topics include feminist critiques of the Western political tradition and schools of feminist political theory. Also listed as WGS 301. (CD)

**POL 278. Politics and Identity. (3 h)**

Investigation of the ways in which concepts of identity have informed political norms, structures, and practices; the myriad forms identity takes (particularly gender, sexual orientation, class, race, religion, nationality and ethnicity) drawing on examples from across the globe; and theoretical approaches proposed for engaging differences. (CD)

**POL 280. Research Methods. (3 h)**

Overview of the qualitative and quantitative methods prominent in studying political science. Attention is given to the relationships between theory, method, and findings by focusing on the need to make systematic empirical observations. P-STA 111 must be taken before or concurrently with this course.

**POL 281. Environmental Political Thought. (3 h)**

Explores the human relationship to the natural world and the implications of this relationship to political issues, such as the preservation of wilderness, industrialization, consumerism, public and private ownership, and social justice.

**POL 282. Gandhi. (3 h)**

Explores the life, political philosophy, and the method of non-violent coercion (satyagraha) of Gandhi. Students define and implement group projects designed to promote change within the context of Gandhian methodology. Service-learning course.

**POL 286. Topics in Political Science. (1-3 h)**

Intensive study of one or more topics in the discipline. May not be used to meet one of the four area requirements. May be repeated for credit. Up to 6 hours may be counted toward the major.

**POL 287. Individual Study. (2, 3 h)**

Intensive research leading to the completion of an analytical paper conducted under the direction of a faculty member. Students initiate the project and secure the permission of an appropriate instructor. May be repeated for a maximum of six hours, only three of which may count toward the major. P-POI.

**POL 288. Directed Reading. (2, 3 h)**

Concentrated reading in an area of study not otherwise available. Students initiate the project and secure the permission of an appropriate instructor. P-POI.

**POL 289. Internship in Politics. (2, 3 h)**

Field work in a public or private setting with related readings and an analytical paper under the direction of a faculty member. Students initiate the project and secure the permission of an appropriate instructor. Normally one course in an appropriate subfield is taken prior to the internship. P-POI.

**POL 300. Senior Seminar in Political Science. (4 h)**

Readings and research on selected topics. P-POL 280 and STA 111.

## Faculty

**Chair** Michaëlle Browers

**Associate Chair** Betina Cutaia Wilkinson

**Provost and Professor** Rogan Kersh

**Maya Angelou Presidential Chair and Professor** Melissa Harris-Perry

**Reynolds Professor of Latin-American Studies** Luis Roniger

**Professors** Michaëlle Browers, Neil DeVotta, John Dinan, Katy J. Harriger, Charles H. Kennedy, Wei-chin Lee, Peter M. Siavelis, Kathy B. Smith, Helga A. Welsh

**Associate Professors** Sara Bahill-Brown, Sarah Lischer, Betina Cutaia Wilkinson, Will Walldorf

**Assistant Professors** Lina Benabdallah, Sara Dahill-Brown, Andrius Galisanka

**Teaching Professor** Tom Brister

**Associate Teaching Professor** Jack Amoureux, Tom Brister

**Visiting Assistant Professor** Carolyn Coberly, Luigi Mendez, James Morone, John Lovett

# Politics and International Affairs, B.A.

## Requirements

Consists of 31 hours, of which, in all but exceptional cases, at least 21 hours must be completed at Wake Forest. Where students take politics courses abroad, they have to be in Wake Forest approved programs and/or must have been certified by the department chair. The required courses for the major include the following:

Code	Title	Hours
<b>Required Major Courses</b>		
Select at least one non-seminar course in each of the following four fields of Politics:		12
I. American Politics		
II. Comparative Politics		
III. Political Theory		
IV. International Politics		
POL 280	Research Methods *	3

POL 300	Senior Seminar in Political Science (normally taken in the senior year)	4
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**Co-Requirements**

STA 111	Elementary Probability and Statistics	4
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Select no more than six hours of 100-level Introductory Courses ***		6
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No more than three hours for any one or any combination of the following courses:		3
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POL 287	Individual Study	
POL 288	Directed Reading	
POL 289	Internship in Politics	

\* *The methods course is a prerequisite for the senior seminar and students are expected to take the methods course prior to the end of their junior year and, in any case, prior to the senior seminar.*

\*\* *Must be completed prior to or in concurrence with POL 280.*

\*\*\* *Majors may not take the introductory courses during their senior year.*

Highly motivated students who would like to further expand or apply their study beyond the normal course of offerings can undertake internships, individual studies, or directed readings if they fulfill the minimum overall GPA requirements of 3.0.

No course taken on a pass/fail basis can count towards the major. Transfer hours toward the major are awarded on an individual case-by-case basis at the discretion of the department chair. Students who receive a score of 5 on political science Advanced Placement (AP) exams may count the hours towards major credit. These credits may not be used to satisfy sub-field requirements. A minimum GPA of 2.0 in all courses completed in politics and international affairs at Wake Forest is required for graduation with the major.

The senior seminar provides an opportunity for majors to experience something comparable to a graduate seminar. As such, it is conducted more by discussion than by lecture and enables students to read and reflect upon advanced scholarly material. The seminar also offers students the opportunity in their final year to create a research paper of greater length and sophistication than is customary and to develop the research and writing skills appropriate to the task.

## I. American Politics

Code	Title	Hours
POL 113	American Government and Politics	3
POL 210	Topics In United States Politics and Policy	3
POL 211	Political Parties, Voters, and Elections	3
POL 212	U.S. Policymaking in the Twenty-first Century	3
POL 213	Economic Inequality and American Politics	3
POL 214	Latino/a Political Behavior	3
POL 215	Citizen and Community	3
POL 216	U.S. Social Welfare Policy	3
POL 217	Politics and the Mass Media	3
POL 218	Congress and Policymaking	3
POL 219	Political Participation	3
POL 220	The American Presidency	3
POL 221	State Politics	3
POL 222	Urban Politics	3

POL 223	African American Politics	3
POL 224	Racial and Ethnic Politics	3
POL 225	American Constitutional Law: Separation of Powers and the Federal System	3
POL 226	American Constitutional Law: Civil Rights and Liberties	3
POL 227	Politics, Law, and Courts	3
POL 228	Politics of Public Education	3
POL 229	Women, Gender, and Politics	3

## II. Comparative Politics

Code	Title	Hours
POL 114	Comparative Government and Politics	3
POL 231	Western European Politics	3
POL 232	Politics in Russia and Eastern Europe	3
POL 233	The Politics of Modern Germany	3
POL 234	United Kingdom Politics in a Global Age	3
POL 235	European Integration	3
POL 236	Government and Politics in Latin America	3
POL 237	The Comparative Politics of Welfare States	3
POL 238	Comparative Economic Development and Political Change	3
POL 239	State, Economy, and International Competitiveness	3
POL 240	Politics of Human Rights	3
POL 241	Contemporary India	3
POL 242	Topics in Comparative Politics	3
POL 243	Corruption	3
POL 244	Politics and Literature	3
POL 245	Ethnonationalism	3
POL 246	Politics and Policies in South Asia	3
POL 247	Islam and Politics	3
POL 248	Chinese Politics	3

## III. Political Theory

Code	Title	Hours
POL 115	Political Theory	3
POL 269	Topics in Political Theory	3
POL 270	Ethics and Agency	3
POL 271	Classical Political Thought	3
POL 272	Democratic Theory	3
POL 273	Marx, Marxism and Post-Marxism	3
POL 274	Arab and Islamic Political Thought	3
POL 275	American Political Thought	3
POL 276	Modern Political Thought	3
POL 277	Feminist Political Thought	3
POL 278	Politics and Identity	3
POL 281	Environmental Political Thought	3

## IV. International Politics

Code	Title	Hours
POL 116	International Politics	3
POL 250	Afghanistan, Pakistan, Iraq and U.S. Policy since 2001	3
POL 251	Politics of Forced Migration	3
POL 252	Topics in International Politics	3
POL 253	International Political Economy	3
POL 254	U.S. Foreign Policy	3
POL 255	Terrorism and Asymmetric Conflict	3
POL 256	International Security	3
POL 257	Politics of International Development	3
POL 258	International Relations of South Asia	3
POL 259	Palestine and the Arab-Israeli Conflict	3
POL 260	United States and East Asia	3
POL 261	International Law	3
POL 262	International Organizations	3
POL 263	U.S. Foreign Policy in the Middle East	3
POL 264	Moral Dilemmas in International Politics	3
POL 266	Modern Civil Wars	3
POL 267	Intelligence and International Politics	3
POL 268	International Conflict Resolution	3

## Honors

Students who are interested in the requirements for honors in the major should consult the honors guidelines, which are available at [www.wfu.edu/politics](http://www.wfu.edu/politics). Students who meet these requirements will graduate with "Honors in Politics and International Affairs."

## Politics and International Affairs, Minor Requirements

Consists of 18 hours. Fifteen of the hours must be taken at Wake Forest.

Code	Title	Hours
Select no more than six hours of 100-level Introductory Courses*		6
Select no more than three hours of any one or any combination of the following courses:		3
POL 287	Individual Study	
POL 288	Directed Reading	
POL 289	Internship in Politics	

\* *Minors are not allowed to take 100-level courses in their senior year.*

Highly motivated students who would like to further expand or apply their study beyond the normal course of offerings can undertake internships, individual studies, or Directed readings if they fulfill the minimum GPA requirements of 3.0.

No course taken on a pass/fail basis can count towards the minor. Transfer hours toward the minor are awarded on an individual case-by-case basis at the discretion of the chair. A minimum GPA of 2.0 in all

courses completed in politics and international affairs at Wake Forest is required for graduation with the minor.

## Psychology (PSY)

The psychology department's goal is to provide majors with broad exposure to basic areas of psychology, along with an in-depth understanding of the methods by which psychological research is conducted. Regardless of whether your ultimate career goal is to become an applied psychologist (e.g., clinical psychologist, counselor, social worker, or consultant), to conduct behavioral research, to become a college professor, or to enter another profession altogether (e.g., law, business, medicine), a psychology major can be useful. This is because it provides in-depth knowledge about human thought, emotion, and behavior, which is

- relevant to any career; and
- through learning how psychologists research human thought, emotion, and behavior,
- students develop intellectual skills that allow them to generate and evaluate knowledge in many areas, including but not limited to psychology.

Thus, the Wake Forest psychology department aims to provide a rigorous and stimulating undergraduate education in both content and methods of psychology. Our department, like most undergraduate liberal arts departments, emphasizes research over applied work and research is a central component of many courses. A research emphasis in an undergraduate program provides the best preparation for applied graduate work as well as a strong foundation for a wide array of jobs.

PSY 151 is a prerequisite to all courses of a higher number. Courses numbered below 151 do not count toward Division IV requirements or toward the major in psychology. PSY 310, PSY 311, PSY 312, or special permission of the instructor is prerequisite for some 300-level courses. See individual course descriptions for specific information. A minimum GPA of 2.0 or higher in psychology courses is required to graduate with a major or minor in psychology.

## Contact Information

Department of Psychology (<http://college.wfu.edu/psychology/>)  
Greene Hall 415, Box 7778  
Phone 336-758-5424

## Programs

### Major

- B.A. in Psychology

### Minor

- Minor in Psychology

## Courses

### Psychology (PSY)

#### PSY 100. Learning to Learn. (3 h)

A course designed for first and second year students who wish to improve their academic performance through the application of learning, study, memory, and time management strategies. By permission of the instructor only. Pass/Fail only.

#### PSY 151. Introductory Psychology. (3 h)

A systematic survey of psychology as the scientific study of behavior. Prerequisite to all courses of a higher number. (D)

#### PSY 241. Developmental Psychology. (3 h)

Surveys physical, emotional, cognitive, and social development in humans from conception to death. P-PSY 151. (D)

#### PSY 243. Biopsychology. (3 h)

An introduction to the biological substrates and processes that govern behavior. P- PSY 151. (D)

#### PSY 245. Survey of Abnormal Behavior. (3 h)

Study of problem behaviors such as depression, alcoholism, antisocial personality, the schizophrenias, and pathogenic personality patterns, with emphasis on causes, prevention, and the relationships of these disorders to normal lifestyles. P-PSY 151. (D)

#### PSY 248. Cognitive Psychology. (3 h)

Surveys theory and research on cognitive processes. Emphasizes memory, attention, visual and auditory information processing, concept identification/formation, and language. P- PSY 151. (D)

#### PSY 255. Personality. (3 h)

Survey of theory and research on the structure and function of human personality, with attention to the relationship to cognition, emotion, motivation, and behavior. P-PSY 151. (D)

#### PSY 260. Social Psychology. (3 h)

A survey of the field, including theories of social behavior, interpersonal attraction, attitudes and attitude change, and group behavior. P-PSY 151. (D)

#### PSY 265. Human Sexuality. (3 h)

Explores the psychological and physiological aspects of human sexuality, with attention to sexual mores, sexual deviances, sexual dysfunction, and sex-related roles. P-PSY 151. (D)

#### PSY 268. Industrial/Organization Psychology. (3 h)

Psychological principles and methods applied to problems commonly encountered in business and industry. P-PSY 151. (D)

#### PSY 270. Topics in Psychology. (1.5 h)

Focused in-depth review of current theory and research on a selected topic in the field. P-PSY 151.

#### PSY 275. Internship in Psychology. (0-3 h)

Field work in pre-approved settings under the supervision of qualified professionals. Related readings and a term paper required. Students must apply and secure permission from designated Psychology Department faculty member who will assign final grade. Students desiring to propose internship that has not been pre-approved must do so at least 1 month before the proposed start of the internship, following standard department procedures. Internships will not be approved for credit after the internship has already begun. Credits cannot count toward minimum required for major or minor. Pass/Fail only. Open only to declared psychology majors or minors with a minimum GPA of 2.75. Maximum 3 hours. P-PSY 310 or 311 and Permission of the Department (POD).

#### PSY 278. Psychology of Memory. (3 h)

A study of specialized knowledge regarding the most relevant aspects of memory function and important investigative techniques in this field. (D)

#### PSY 280. Directed Study. (1-3 h)

Student research performed under faculty supervision. P-PSY 151 and approval of faculty member prior to registration.



**PSY 310. Methods in Psychological Research. (3 h)**

Introduces statistics and research design for students minoring in psychology. P-PSY 151 (D, QR)

**PSY 311. Research Methods I. (4 h)**

Design and statistical analysis of correlational research. Lab-twice weekly. P-At least one course in addition to PSY 151. (QR, D)

**PSY 312. Research Methods II. (4 h)**

Design and statistical analysis of experimental methods. Lab-twice weekly. P-PSY 311. (QR)

**PSY 313. History and Systems of Psychology. (3 h)**

The development of psychological thought and research from ancient Greece to the present. Normally offered only fall semester. Senior major standing only. P-Two psychology courses beyond PSY 151 or POI. (D)

**PSY 314. Special Topics in Social Psychology. (3 h)**

Theoretical and empirical examination of specialized areas within social psychology. May be repeated for credit if topic varies. P-PSY 151. (D)

**PSY 315. Special Topics in Personality Psychology. (3 h)**

Theoretical and empirical examination of specialized areas within personality psychology. May be repeated for credit if topic varies. P-PSY 151. (D)

**PSY 316. Special Topics in Developmental Psychology. (3 h)**

Theoretical and empirical examination of specialized areas within developmental psychology. May be repeated for credit if topic varies. P-PSY 151. (D)

**PSY 317. Special Topics in Experimental Psychology. (3 h)**

Theoretical and empirical examination of specialized areas within experimental psychology. May be repeated for credit if topic varies. P-PSY 151. (D)

**PSY 320. Physiological Psychology. (3 h)**

Provides an in-depth examination of the nervous system and the physiological processes that underlie sensation, motor control, thinking, and emotion. P-PSY 310 or 311 or POI.

**PSY 322. Psychopharmacology. (3 h)**

A survey of the influences of a wide range of psychoactive drugs, both legal and illegal, on human physiology, cognition, and behavior. P-PSY 151. (D)

**PSY 323. Animal Behavior. (3 h)**

A survey of laboratory and field research on animal behavior. P-PSY 310 or 311 or POI.

**PSY 326. Learning Theory and Research. (3 h)**

Theory and current research in learning, with emphasis on applications of learning principles for behavior modification and comparisons across species. P-PSY 310 or 311. P or C-PSY 312.

**PSY 329. Perception. (3 h)**

Survey of theory and research findings on various sensory systems (vision, hearing, touch, taste). P-310 or 311.

**PSY 331. Research in Cognitive Psychology. (3 h)**

In-depth examination of research in a selected area of cognitive psychology such as memory, attention, or executive function. Research projects required. P-PSY 310 or 311. P or C-PSY 312.

**PSY 333. Motivation of Behavior. (3 h)**

Surveys basic motivational concepts and related evidence. P-PSY 310 or 311. P or C-PSY 312.

**PSY 338. Emotion. (3 h)**

Survey of theory methods and research in the area of emotion. Developmental, cultural, social-psychological, physiological, personality, and clinical perspectives on emotions are given. P-PSY 310 or 311.

**PSY 341. Research in Developmental Psychology. (3 h)**

Methodological issues and selected research in developmental psychology. Research projects required. P-PSY 310 or 311. P or C-PSY 312.

**PSY 344. Abnormal Psychology. (3 h)**

Descriptive analysis of the major types of abnormal behavior with attention to organic, psychological, and cultural causes and major modes of therapy. Offered in the summer. P-PSY 151. (D)

**PSY 346. Psychological Disorders of Childhood. (3 h)**

Survey of problems including conduct disorders, attention deficits disorders, depression, and autism. Emphasis on causes, prevention, treatment, and the relationships of disorders to normal child development and family life. P-PSY 245 or 344 or POI. (D)

**PSY 348. Clinical Neuroscience. (3 h)**

Surveys connections between abnormal neurological processes and clinical abnormalities. This implies already having an understanding of normal brain function and anatomy. P-PSY 243 or PSY 320 or PSY 322.

**PSY 351. Personality Research. (3 h)**

The application of a variety of research procedures to the study of human personality. Research projects required. P-PSY 310 or 311.

**PSY 355. Research in Social Psychology. (3 h)**

Methodological issues and selected research in the study of the human as a social animal. Research projects required. P-PSY 310 or 311.

**PSY 357. Cross-Cultural Psychology. (3 h)**

An examination of differences in psychological processes (e.g., attitudes, perception, mental health, organizational behavior) associated with cultural variation. P-PSY 151. (CD, D)

**PSY 359. Psychology of Gender. (3 h)**

An exploration of the psychological similarities and differences between human males and females, including consideration of social, cognitive, motivational, biological, and developmental determinants of behavior. P-PSY 151. (CD, D)

**PSY 362. Psychological Testing. (3 h)**

An overview of the development and nature of psychological tests with applications to school counseling, business, and clinical practice. Students have the opportunity to take a variety of psychological tests. P-PSY 310 or 311.

**PSY 363. Survey of Clinical Psychology. (3 h)**

Overview of the field of clinical psychology. P-Psychology senior majors only or POI. (D)

**PSY 364. Stereotyping and Prejudice. (3 h)**

Theoretical and empirical examination of the processes underlying prejudice, discrimination and racism. P-PSY 151. (CD, D)

**PSY 367. Parent-Child Relationships. (3 h)**

Surveys characteristics of parent-child relationships and issues of parenting as related to a variety of factors, including developmental changes of parent and child, family structure, and sociocultural context. P-PSY 151. (D)

**PSY 374. Research in Judgment and Decision Making. (3 h)**

A theoretical and empirical examination of how people make decisions and judgments about their lives and the world, and how these processes can be improved. P-PSY 310 or 311.

**PSY 381. Honors Seminar. (3 h)**

Seminar on selected problems in psychology. Intended primarily for students in the departmental honors program. P-PSY 311 and POI.

**PSY 383. Honors Research. (3 h)**

Seminar in selected issues in research design, followed by independent empirical research under the supervision of a member of the departmental faculty. P-PSY 311 and POI.

**PSY 392. Contemporary Issues in Psychology. (1.5 h)**

Seminar treatment of current theory and research in several areas of psychology. Required for senior majors. P-PSY 312, and senior major standing.

## Faculty

**Chair** Eric R. Stone

**William L. Poteat Professor of Psychology** Deborah L. Best

**Professors** Terry D. Blumenthal, Christy M. Buchanan, Dale Dagenbach, William W. Fleeson, R. Michael Furr, Lisa Kiang, John V. Petrocelli, Wayne E. Pratt, Catherine E. Seta, Eric R. Stone

**Associate Professors** Dunuville Eranda R. Jayawickreme, Janine M. Jennings, Lara K. Kammrath, E.J. Masicampo, Christian E. Waugh

**Assistant Professors** Shannon T. Brady, Veronica T. Cole, S. Mason Garrison, Anthony W. Sali

**Assistant Teaching Professors** Heath L. Greene, Melissa M. Masicampo

**Adjunct Professors** Jay R. Kaplan, W. Jack Rejeski Jr.

**Adjunct Associate Professor** Alan S. Cameron, C. Drew Edwards

**Adjunct Assistant Professors** Phillip G. Batten, Meghan Gangel, Ashley L. Heffner, Leigh D. Watson

**Adjunct Instructor** Stephen W. Davis

**Visiting Lecturer of Psychology** Bridget A. Smeekens

## Psychology, B.A.

### Requirements

It is recommended that students who are considering psychology as a major take:

Code	Title	Hours
PSY 151	Introductory Psychology (in their First year) *	3
PSY 311	Research Methods I (no later than their Junior year)	4

\* *It is recommended that students take at least one course in addition to PSY 151 before taking PSY 311.*

At the time the major is elected, students must have completed at least one psychology course (includes AP or IB credit for PSY 151, but excludes PSY 100), and must have a minimum GPA of 2.0 or higher in all graded psychology courses. The major in psychology requires the completion of a minimum of 32 hours in psychology, including:

Code	Title	Hours
PSY 151	Introductory Psychology	3
PSY 311	Research Methods I	4
PSY 312	Research Methods II	4
PSY 392	Contemporary Issues in Psychology	1.5

Select at least one course from each of the following groups:

#### Group A

#### Group B

No more than 3 hours of PSY 280 may be counted toward the 32 hours required for the major, and a maximum of 5 hours of PSY 280 may be counted toward the graduation requirement of 120 hours. A maximum of 3 hours of internship credit can be taken.

No more than 50 hours in psychology may be counted toward the graduation requirements of 120 hours.

No more than six psychology credit hours will be accepted for courses taken at other schools or in other WFU departments, and a maximum of three of those six hours may come from online courses. Cross-listed courses taught by another department at Wake Forest will be counted toward the 32 hours required for the major. The cross-listed courses are: BEM 211, EDU 311, HES 312, and LIN 330. A student may not take both BEM 211 and PSY 268 for psychology credit. A maximum of nine hours of transfer credit and cross-listed courses taught by another department can be counted towards the major if 35 or more hours in the major are taken. AP or IB credit may be accepted for PSY 151, but other courses taken at community colleges or college courses taught on high school campuses taken after enrollment at Wake Forest are not accepted for transfer credit. With the exception of PSY 151, specific courses required for the major, including A and B group courses, must be taken at Wake Forest. The guidelines regarding transfer and credit approval may be modified in rare and special circumstances at the discretion of the psychology department chair.

### Group A

Code	Title	Hours
PSY 320	Physiological Psychology	3
PSY 326	Learning Theory and Research	3
PSY 329	Perception	3
PSY 331	Research in Cognitive Psychology	3
PSY 333	Motivation of Behavior	3
PSY 338	Emotion	3

### Group B

Code	Title	Hours
PSY 341	Research in Developmental Psychology	3
PSY 351	Personality Research	3
PSY 355	Research in Social Psychology	3
PSY 362	Psychological Testing	3
PSY 374	Research in Judgment and Decision Making	3

### Honors

Highly qualified majors are invited by the department to participate in the honors program in psychology. Students must take PSY 311 no later than fall of the junior year in order to be considered for the honors program. To be graduated with the designation "Honors in Psychology," the student must:

- complete satisfactorily a special sequence of courses (PSY 381, PSY 383)
- pass an oral or written examination

- earn an overall GPA of 3.2 with an average of 3.5 on work in psychology

In addition, the honors student normally has a non-credit research apprenticeship with a faculty member. For more detailed information, members of the departmental faculty should be consulted. (Students satisfactorily completing PSY 383 are not required to complete PSY 392.)

## Psychology, Minor Requirements

Requires 15 hours in psychology including:

Code	Title	Hours
PSY 151	Introductory Psychology	3
PSY 310 or PSY 311	Methods in Psychological Research * Research Methods I	3
Select at least two of the following:		6
PSY 241	Developmental Psychology	
PSY 243	Biopsychology	
PSY 245	Survey of Abnormal Behavior	
PSY 248	Cognitive Psychology	
PSY 255	Personality	
PSY 260	Social Psychology	
PSY 268	Industrial/Organization Psychology	
PSY 320	Physiological Psychology	
PSY 323	Animal Behavior	
PSY 326	Learning Theory and Research	
PSY 329	Perception	
PSY 331	Research in Cognitive Psychology	
PSY 333	Motivation of Behavior	
PSY 338	Emotion	
PSY 362	Psychological Testing	
PSY 374	Research in Judgment and Decision Making	
Select one other PSY course		3

\* *The PSY 310 or PSY 311 requirement may be waived if the student takes one set of the following methods courses: BEM 201 and BEM 202, BEM 201 and FIN 203, ECN 209, HES 262, SOC 271 and SOC 272. If the psychology statistics course requirement is waived, a student will then be required to take an additional course.*

If the psychology statistics course requirement is waived, a student will then be required to take an additional course. No more than six hours will be accepted for courses taken at other schools and cross-listed courses taught by another Wake Forest department to be counted toward the 15 hours required for the minor. A maximum of three of those six hours may come from online courses. The cross-listed courses that may be accepted are: BEM 211, EDU 311, HES 312, LIN 330. A student may not take both BEM 211 and PSY 268 for psychology credit.

## Religions, Study of (REL)

The study of religion is a way of organizing academic inquiry into how human beings and human cultures express and experience their religious needs, beliefs, and values. It involves the study of both specific religious traditions and the general nature of religion as a phenomenon of human

life. Using cross-cultural and interdisciplinary approaches, religious studies investigates and interprets systems of religious belief, the history of religious traditions, the function of religion in society, and forms of religious expression such as ritual, symbols, sacred narrative, scripture, practices, theological and philosophical reflection. Students of religious studies, whether adherents of a religion or of no religion, gain tools to understand, compare, and engage the phenomenon of religion and its role in human life and culture.

## Contact Information

Department for the Study of Religions (<http://college.wfu.edu/religion/>)  
Wingate Hall 118, Box 7212  
Phone 336-758-4830

## Programs Major

- B.A. in Religious Studies

## Minor

- Minor in Religious Studies

## Courses

### Near Eastern Languages and Literature (NLL)

#### NLL 111. Elementary Hebrew. (3 h)

A course for beginners in the classical Hebrew of the Bible, with emphasis on the basic principles of grammar and the reading of biblical texts. Both semesters must be completed.

#### NLL 112. Elementary Hebrew. (3 h)

A course for beginners in the classical Hebrew of the Bible, with emphasis on the basic principles of grammar and the reading of biblical texts. Both semesters must be completed.

#### NLL 153. Intermediate Hebrew. (3 h)

Intensive work in Hebrew grammar and syntax. Based upon the reading of selected texts. Readings emphasize post-biblical Hebrew. P-NLL 111 and NLL 112 or the equivalent.

#### NLL 211. Hebrew Literature. (3 h)

The reading and discussion of significant Biblical Hebrew texts. P-NLL 153.

#### NLL 212. Hebrew Literature II. (3 h)

The reading and discussion of significant Biblical and post-Biblical texts. On request. P-NLL 153.

#### NLL 213. Studies in Modern Hebrew. (3 h)

Intended for students with a working knowledge of Classical Hebrew, this course will explore some of the primary differences between the linguistic groups and will introduce students to the formal study of Modern Hebrew. POI required.

#### NLL 301. Introduction to Semitic Languages. (3 h)

A comparative study of the history and structure of the languages of the Semitic family. On request.

#### NLL 302. Akkadian I. (3 h)

An analysis of the phonology, morphology, and syntax of the East Semitic languages of the ancient Near East as they relate to the larger family of Semitic languages. On request.

**NLL 303. Akkadian II. (3 h)**

A continuation of Akkadian I (NLL 302) with further emphasis on building expertise in vocabulary and syntax through the reading of texts from the Middle Babylonian period. On request.

**NLL 310. Intermediate Readings in Classical Hebrew. (1 h)**

Analysis of selected texts designed to expand the student's facility with Hebrew. May be repeated for credit.

**NLL 311. Aramaic. (3 h)**

The principles of Aramaic morphology, grammar, and syntax based on readings from the Bible and other ancient Near Eastern texts. P-NLL 112 or POI. On request.

**NLL 314. Readings from the Rabbis. (3 h)**

Selected texts in Hebrew and Aramaic from the Mishna and Midrash. On request. P-NLL 211 or POI.

**NLL 321. Introduction to Middle Egyptian I. (3 h)**

The phonology, morphology, and grammar of Middle Egyptian. On request.

**NLL 322. Introduction to Middle Egyptian II. (3 h)**

The phonology, morphology, and grammar of Middle Egyptian. On request.

## Religions, Study of (REL)

**REL 101. Introduction to Religion. (3 h)**

A study of meaning and value as expressed in religious thought, experience, and practice. Focus varies with instructor. (D)

**REL 102. Introduction to the Bible. (3 h)**

A study of the forms, settings, contents, and themes of the Old and New Testaments. Focus varies with instructor. (D)

**REL 103A. Introduction to Christian Traditions. (3 h)**

Study of Christian experience, thought, and practice. Focus varies with instructor. (D)

**REL 103B. Introduction to Latin American Christian Traditions. (3 h)**

Study of the origins, practices, experiences, and thought of Christian traditions in Latin America. Focus varies with instructor. (CD, D)

**REL 104A. Introduction to Asian Religions. (3 h)**

Study of the thought and practices within the major religious traditions of South, Southeast, and East Asia. Focus, region, and traditions may vary with instructor. (CD, D)

**REL 104B. Introduction to South Asian Religions. (3 h)**

Study of the thought and practices within the major religious traditions of South Asia (Indian subcontinent). Focus and traditions may vary with instructor (CD, D)

**REL 104C. Introduction to East Asian Religions. (3 h)**

Study of the thought and practices within the major religious traditions of East Asia (China, Korea, and Japan). Focus, regions, and traditions may vary with instructor. (CD, D)

**REL 105. Monotheisms: Judaism, Christianity, and Islam. (3 h)**

Examines the history, thought, and practices of these three monotheistic traditions in global perspective. Focus varies by instructor. (D)

**REL 106. The Bible in America. (3 h)**

Critical examination of the ways in which various individuals and groups have interpreted, appropriated and used the Bible in America. Focus varies with instructor. (D)

**REL 107. Introduction to African Religions. (3 h)**

A study of the basic features of African religious systems and institutions, with focus on the cultural, economic and political factors that have informed global preservations of an African worldview. (CD, D)

**REL 108. Introduction to Hindu Traditions. (3 h)**

An examination of historical, political, and cultural developments of various traditions placed under the heading "Hinduism" in South Asia and abroad, with focus on ritual, myths, literature, and imagery that reflect their diverse beliefs and practices. (CD, D)

**REL 109. Introduction to Buddhist Traditions. (3 h)**

A study of the thought, history, and practices of Buddhist traditions in Asia. (CD, D)

**REL 110. Introduction to Islamic Traditions. (3 h)**

Examination of the origins and development of Islam. Attention is given to the formation of Islamic faith and practice. (CD, D)

**REL 111. American Indian and First People's Traditions. (3 h)**

Multi-disciplinary study of thought and practice in past and present American Indian and other indigenous communities. (CD, D)

**REL 113. Introduction to Jewish Traditions. (3 h)**

Examines the history, thought, and practices of Jewish traditions in global perspective. (D)

**REL 200. Approaches to the Study of Religion. (3 h)**

Explores the history of and methodological resources for the study of religion. Focus may vary with instructor, but the emphasis is on the ways religion has been defined, studied, and interpreted over the last several centuries.

**REL 210. Jerusalem in History and Tradition. (3 h)**

An examination of the ways meaning and religious significance have been imparted to Jerusalem far beyond its significance in world history.

**REL 230. Religion and the U.S. Constitution. (3 h)**

Introduces the complex relationship between religion and the U.S. government through an in-depth analysis of the nation's founding documents and the subsequent series of First Amendment church-state decisions rendered by the United States Supreme Court.

**REL 242. Sex, Death and Salvation. (3 h)**

Examines how various religious traditions, past and present, have understood the overlapping notions of sexuality, human destiny, and the afterlife. (CD)

**REL 244. Religion, Terrorism, and Violence. (3 h)**

Investigates definitions of terrorism and examines religious motivations, justifications and legitimation of the use of violence in a number of belief systems. (CD)

**REL 246. Religion and Race. (3 h)**

Explores the relationship between religion and race, two categories that describe identity and that intersect in the lives of individuals and groups. Focus varies with instructor. (CD)

**REL 261. Foundations of Traditional Judaism. (1.5 h)**

A study of rabbinic and medieval Judaism, emphasizing the post-biblical codification of Jewish thought in the Mishnah, Talmud, and Midrash.

**REL 265. Culture and Religion in Contemporary Native America. (3 h)**

Interdisciplinary survey of American Indian culture, including the arts and literature, religions, and historical changes. Emphasizes the impact of the Conquista, encounters with Northern Atlantic societies, and contemporary developments. Also listed as AES 265. (CD)

**REL 266. Religious Sects and Cults. (3 h)**

Examines historical and contemporary issues in the study of new religious movements by analyzing media coverage of "cults" and investigating the history of specific groups.

**REL 267. Religion and Popular Culture. (3 h)**

Examination of the relationship between religion and popular culture, focusing on a variety of popular culture forms and interpretive skills. Focus varies with instructor.

**REL 280. God, Gods, and the Ultimate. (3 h)**

Comparative study of the way religious traditions—both Eastern and Western—conceptualize "Ultimate Reality" or "the Absolute" (e.g., God, Allah, Brahman, the Dao, Emptiness). Particular attention will be given to the historical evolution and the socio-religious implications of the various conceptualizations studied. (CD)

**REL 286. Directed Reading. (1-3 h)**

A project in an area of study not otherwise available in the department. May be repeated for credit. (Group I-III with department approval) P-POI.

**REL 287. Directed Reading. (1-3 h)**

A project in an area of study not otherwise available in the department. May be repeated for credit. (Group I-III with department approval) P-POI.

**REL 288. Field Program in Religion and Public Engagement. (1-3 h)**

Integrated study of major themes in religion and public engagement carried out in partnership with one or more communities off campus. May be repeated for credit. Focus varies with instructor. P- POI. On request.

**REL 290. Special Topics in Religion. (1.5-3 h)**

Religion topics of special interest. Group I-III with department approval. May be repeated for credit if topic varies.

**REL 291. Crossing Divides: Dialogues Across Faith and Culture. (1.5-3 h)**

Examines methods and practices of inter-religious dialogue with special attention to contemporary challenges. Focus varies with instructor. (CD)

**REL 292. Crossing Divides: Crossing Back: Peacemaking. (1.5-3 h)**

Examines methods and practices of inter-religious peacemaking with special attention to contemporary challenges. Focus varies with instructor. (CD)

**REL 304. Myth, Ritual & Symbolism. (3 h)**

Explores how people envision and manipulate the supernatural in cross-cultural perspective. Emphasizes functional aspects of religious beliefs and practices. Also listed as ANT 336. (CD) P-ANT 111 or 112 or 113 or 114 or POI.

**REL 305. Ethnography of Religion. (3 h)**

Study of theory and method in ethnography of religion where students closely read ethnographies from a variety of cultures and discuss the practical, methodological and ethical issues related to ethnography. Course culminates with students researching and writing their own ethnographies. (CD)

**REL 306. Ritual Studies. (3 h)**

Introduction to the various methods and theories employed in the field of ritual studies, while examining comparative rituals and ritualized practices from around the world.

**REL 307. Magic, Science and Religion. (3 h)**

Explores concepts of magic, science and religion that emerged in Western thought and culture from late antiquity through the European Enlightenment and analyzes connections between religious traditions and Western, Modern Science.

**REL 308. Sacred Scripture in the Traditions of Abraham. (3 h)**

A comparative study of sacred texts in Judaism, Christianity, and Islam with attention to the issues of authority, function and interpretation.

**REL 310. The Prophetic Literature. (3 h)**

An examination of the development and theological contents of the literary products of Israel's prophetic movement.

**REL 312. The Critical Study of the Pentateuch. (3 h)**

A study of the five traditional books of Moses (the Torah) and the various lines of analysis that modern Biblical critics have used to interpret their composition and role in the development of Israelite theological thought.

**REL 313. Near Eastern Archeology. (3 h)**

A survey of 20th century archeology in the Near East with attention to its importance for Biblical studies.

**REL 315. Field Research in Biblical Archeology. (3 h)**

A study of the religion and culture of the ancient Near East through the excavation and interpretation of an ancient site.

**REL 316. Field Research in Biblical Archeology. (3 h)**

A study of the religion and culture of the ancient Near East through the excavation and interpretation of an ancient site.

**REL 317. Wisdom Literature. (3 h)**

An examination of the development, literary characteristics, and theological contents of the works of ancient Israel's sages.

**REL 318. Feminist and Contemporary Interpretations of the New Testament. (3 h)**

A study of feminist and contemporary approaches to the New Testament in light of the history of New Testament interpretation and a range of contemporary concerns and interpretive contexts.

**REL 320. The Search for Jesus. (3 h)**

A study of issues, assumptions, evidence, and debate that shapes the continuing quest for the historical Jesus.

**REL 323. Jesus Traditions. (3 h)**

Examines ancient Christian and other religious representations of Jesus in historical, social, cultural, and theological context.

**REL 324. Early Christian Literature. (3 h)**

An examination of various literatures and perspectives of the first three centuries of the Christian movement.

**REL 328. Jewish-Christian Relations and the New Testament. (3 h)**

Study of Jewish-Christian relations and selected writings of the New Testament in the historical, social, religious and political contexts of ancient Judaism and emerging Christianity. Focus varies with instructor.

**REL 329. Chinese Medicine. (3 h)**

An interdisciplinary exploration and analysis of Chinese medicine, its fundamental theories, and its range of health-oriented and religious applications. (CD)

**REL 330. Pope, Jefferson and Imam: A Study in Comparative Ethics. (3 h)**

A comparative study of the moral values and socio-ethical positions in the major religious traditions of the world, with particular focus on their various methods of reasoning and sources of authority.

**REL 331. Religion and Law. (3 h)**

A study of religion and law as distinct yet interdependent spheres that influence cultural negotiations about authority, power, identity and the regulation of society. Geographic and tradition-specific focus may vary with instructor.

**REL 332. Religion and Public Engagement. (3 h)**

Examines the interface between religious communities and the public sphere, and the potential for social change in contemporary global and local contexts through a range of readings, guest lectures, field trips, and films. Traditions and emphasis may vary with instructor.

**REL 335. Religious Ethics and the Problem of War. (3 h)**

An examination of the causes and characteristics of war, various religious responses to it, and approaches to peacemaking, with attention to selected contemporary issues.

**REL 336. Religious Traditions and Human Rights. (3 h)**

A study of relationships and tensions between religious traditions and human rights, with illustrations from historical and contemporary issues and movements.

**REL 338. Religion, Ethics, and Politics. (3 h)**

An examination of ethical issues in religion and politics using materials from a variety of sources and historical periods.

**REL 339. Religion, Power, and Society in Modern Africa. (3 h)**

An interdisciplinary study of the growth transformations of Africa's major religious traditions (Christianity, Islam, and the indigenous religions), and of their relations with secular social changes. (CD)

**REL 341. Religion and Ecology. (3 h)**

Cross-cultural examination of the relationships among human beings, their diverse cultures, habitats, and religions, including social and political understandings of the environment.

**REL 342. Religious Intolerance in the U.S. (3 h)**

Study of the various manifestations of religious intolerance in the United States from the colonial period until the present.

**REL 343. Religion, Culture, and the Body. (3 h)**

A cross-cultural, multi-disciplinary-exploration of the body as a malleable locus of contested ideals that informs personal, social, and religious identity formation. (CD)

**REL 344. Religion, Poverty, and Social Entrepreneurship. (3 h)**

Interdisciplinary study of major themes in religion, poverty reduction, and social entrepreneurship. Focus and community emphasis may vary with instructor. Also listed as ENT 322.

**REL 345. The African-American Religious Experience. (3 h)**

Exploration of the religious dimensions of African-American life from its African antecedents to contemporary figures and movements. (CD)

**REL 346. Religious Utopias and the American Experience. (3 h)**

Surveys a range of such 18th- and 19th-century utopian communities, including Moravians, Rappites, Shakers, and the Oneida and Amana colonies. Also listed as HST 381.

**REL 347. Religion, Gender, & Sexuality. (3 h)**

Explores how "religion" regulates and normalizes gender and sexuality.

**REL 348. Race, Memory, and Identity. (3 h)**

Explores the collective memory and identity of American-Indian and African-American communities and their response to historical trauma in their cultural imagination, spirituality, and political and social activism. Also listed as HST 378. (CD)

**REL 349. Asian Meditation Practices. (3 h)**

Introduces and examines theoretical and practical aspects of various forms of Eastern meditation (concentration, mindfulness, Zen, visualization, and moving energy work) from both practitioner and modern scientific perspectives. (CD)

**REL 351. Sociology of Religion. (3 h)**

Introduction to the sociological analysis of religion, including religious beliefs and experiences, the cultural context of religion, varieties of religious organization, religious change and social change. Also listed as Sociology 301.

**REL 355. Jewish Identities: Religion, Race, and Rights. (3 h)**

Examines how evolving definitions of race, religion, and Jewishness have correlated and conflicted in varied and sometimes surprising ways and how these shifts have been tied to legal rights and social privileges. (CD)

**REL 356. Faces of Modern Judaism. (3 h)**

Examines contemporary expressions of Judaism and its historical roots. (CD)

**REL 357. Jews in the United States. (3 h)**

Examines Jewish American histories, experiences, and identities and their impact on American society as a whole.

**REL 359. Hinduism in America. (3 h)**

A study of the meanings, values, and practices associated with the religions of Hinduism in dialogue with the dominant culture of America. (CD)

**REL 360. Hindus, Muslims, & Sikhs in North America. (3 h)**

Examines the racialization of Hinduism, Islam, and Sikhism in North America using a postcolonial and intersectional approach.

**REL 361. Topics in Buddhism. (3 h)**

Variable topics in Buddhist history, thought, and/or practice. May be repeated for credit if topic varies. (CD)

**REL 362. Topics in Islam. (3 h)**

Variable topics in Islamic history, thought, and/or practice. May be repeated for credit if topic varies. (CD)

**REL 363. The Religions of Japan. (3 h)**

A study of the central religious traditions of Japan from pre-history to the present, including Shinto, Buddhism, Zen Buddhism, Christianity, and Confucianism. (CD)

**REL 364. Topics in U.S. Religious History. (1.5-3 h)**

Variable topics in U.S. religious history, thought, and/or practice. May be repeated for credit if topic varies.

**REL 365. History of Religions in America. (3 h)**

A study of American religions from colonial times until the present.

**REL 367. Christian Mysticism. (3 h)**

Study of Christian mysticism and contemplation (spirit possession, visions, dreams, and meditation) and their relation to contemporary issues.

**REL 368. Protestant and Catholic Reformations. (3 h)**

A study of the origin and development of Reformation theology and ecclesiology.

**REL 369. Radical Christian Movements. (3 h)**

A study of selected radical movements in the Christian tradition and their relation to contemporary issues.

**REL 372. History of Christian Thought. (3 h)**

A study of recurring patterns in Christian thought across time and cultures and some of the implications of those patterns in representative ancient and modern Christian figures.

**REL 373. Special Topics in African-American Religious Traditions. (3 h)**

Variable topics in African-American religious traditions. May be repeatable for credit if topic varies. (CD)

**REL 374. Black Messiahs and Uncle Toms. (3 h)**

Examines the cultural and religious history of black leadership in the United States. (CD)

**REL 375. Race, Myth, and the American Imagination. (3 h)**

A study of myth and mythology in relation to the racial imaginary in America. (CD)

**REL 376. Race, Religion, and Film. (3 h)**

Examines past and contemporary filmmakers who couple religious themes with racial concerns. (CD)

**REL 378. Latin American Liberation Theologies. (3 h)**

Historical, contextual, and theoretical survey of various forms of Latin American liberation theology, a school of Christian thought that both critiques systems of oppression and offers proposals for a more just and peaceful future.

**REL 381. Zen Buddhism. (3 h)**

Examines the origins and development of Zen Buddhism from China (Ch'an) to Japan and contemporary America. Attention is given to Zen doctrine and practice in the context of the broader Buddhist tradition. (CD)

**REL 382. Religion and Culture in China. (3 h)**

A thematic study of Chinese religious culture focusing on history, ritual, scripture, and popular practice. Additional topics will include cosmology, ancestor veneration, shamanism, divination, and the role of women. (CD)

**REL 383. The Quran and the Prophet. (3 h)**

Examines the history, content, and main approaches to the sacred book of Islam. Explores the influence and interaction between the holy word and its transmitter the Prophet Muhammad. (CD)

**REL 384. Islam and Law: Varieties in Interpretation and Expression. (3 h)**

Explores main tenets of the Islamic law (Shari'ah) and how this law has been applied in past and present Islamic societies. Looks at legal issues through the lens of gender, ethics, non-Muslim minorities, rights, and duties. (CD)

**REL 385. Topics in South Asian Religions. (3 h)**

Variable topics in the religions of South Asia. May be repeated for credit if topic varies. (CD)

**REL 386. Indian Epics. (3 h)**

Examines one or both Indian epics, the Mahabharata and Ramayana, while paying attention to either epic's religious, social, and political contexts, performance, and development in Indian history. (CD)

**REL 387. Priests, Warriors and Ascetics in Ancient India. (3 h)**

Introduces students to the history, culture, and ritual traditions of ancient India by examining the overlapping practices, beliefs, ideologies, and gendered representations of priests, warriors, kings, and ascetics. (CD)

**REL 388. South Asian Women: Religion, Culture and Politics. (3 h)**

Examines the intersection of religion, race and gender of South Asian women from a feminist and postcolonial perspective. (CD)

**REL 389. Islam in the West: Changes and Challenges. (3 h)**

Explores issues of identity, ethnicity and religion within various Muslim communities living in western countries. A central goal is to understand how these communities negotiate the new environment and the challenges they face.

**REL 390. Special Topics in Religion. (1.5-3 h)**

Religion topics of special interest. May be repeated for credit. Group I-III with department approval. P-POI.

**REL 391. Topics in East Asian Religions. (3 h)**

Variable topics in the religions of China, Korea, and Japan. May be repeated for credit if topic varies. (CD)

**REL 392. Topics in First Peoples' Traditions. (3 h)**

Variable topics in the religions of American Indian and Canadian First Nations. May be repeated for credit if topic varies. (CD)

**REL 393. Topics in Religions of Africa. (3 h)**

Variable topics in the religions of Africa or African diaspora. May be repeated for credit if topic varies. (CD)

**REL 395. Exploring Interfaith Practice and Leadership. (3 h)**

This online course on interfaith leadership invites students to consider how they might engage most effectively with people from a variety of religious backgrounds. POI.

**REL 396. Interreligious Encounters & Engagements. (3 h)**

Surveys the history of dialogue activities among various religious communities and introduces the methods and theories of interreligious dialogue. Part of this class is interaction with local interfaith projects.

**REL 398. Honors in Religion. (3 h)**

Directed study and research in preparation for writing and completing an honors thesis. P - Admission to the honors program in the Study of Religions.

**REL 399. Senior Colloquy. (1 h)**

This 1-hour capstone course, required for senior majors, is structured around writing and reflection on the major through readings, discussions, and portfolio development. Pass/fail only.

## Sanskrit Language and Literature (SKT)

**SKT 111. Intro to Sanskrit. (3 h)**

Two-semester sequence designed to introduce students to classical Sanskrit with emphasis on the basic principles of grammar, syntax, historical linguistics, and the reading of classical Indian texts. On Request.

**SKT 112. Intro to Sanskrit. (3 h)**

Two-semester sequence designed to introduce students to classical Sanskrit with emphasis on the basic principles of grammar, syntax, historical linguistics, and the reading of classical Indian texts. On Request.

## Faculty

**Chair** Lynn S. Neal

**Easley Professor of Religion** Stephen B. Boyd

**Wingate Professor of Religion** Simeon O. Ilesanmi

**Wake Forest Kahle Professor of Religion and Albritton Fellow** Mary Foksett

**Professors** James L. Ford, Kenneth G. Høglund, Nelly van Doorn-Harder, Lynn S. Neal, Jarrod L. Whitaker, Ulrike Wiethaus

**Associate Professors** Lucas F. Johnston, Ronald B. Neal

**Assistant Professors** Annalise Glauz-Todrank, Kimberly T. Wortmann

**Associate Teaching Professor and Bryant-Groves Faculty Fellow** Tanisha Ramachandran

**Assistant Teaching Professor** Leann Pace

## Religious Studies, B.A.

### Requirements

Requires a minimum of 28 hours, of which 18 must be in courses above the 100-level:

Code	Title	Hours
	Select courses above the 100-level	18
REL 200	Approaches to the Study of Religion	3
	Select one three hour course (or two 1.5 hour courses) from each of the three groups designated:	9
	I. Biblical Studies	

## II. Religion, History and Society

## III. World Religions

REL 399	Senior Colloquy (senior year)	1
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A minimum GPA of 2.0 in all courses completed in religious studies at Wake Forest is required for graduation with the major. Up to 3 hours from NLL courses 200 or above may be counted toward the major. Up to 9 hours of coursework completed outside the department and no more than 6 hours of directed reading may be counted toward the major. Majors may not take 100-level courses during their senior year.

**A concentration in religion and public engagement for declared majors and minors in religious studies** requires 15 hours and provides an opportunity for students to undertake a community-based study of educational, economic, cultural and political development strategies, and action.

Code	Title	Hours
REL 332	Religion and Public Engagement	3
Select one of the following:		3
REL 200	Approaches to the Study of Religion	
REL 305	Ethnography of Religion	
REL 336	Religious Traditions and Human Rights	
REL 338	Religion, Ethics, and Politics	
REL 288	Field Program in Religion and Public Engagement (an internship)	3

Select two Elective Courses related to the community partner's context, history, and values \*

\* *Elective courses may be chosen from other departments and programs with approval from the RPE committee.*

## I: Biblical Studies

Code	Title	Hours
REL 261	Foundations of Traditional Judaism	1.5
REL 308	Sacred Scripture in the Traditions of Abraham	3
REL 310	The Prophetic Literature	3
REL 312	The Critical Study of the Pentateuch	3
REL 313	Near Eastern Archeology	3
REL 315	Field Research in Biblical Archeology	3
REL 316	Field Research in Biblical Archeology	3
REL 317	Wisdom Literature	3
REL 318	Feminist and Contemporary Interpretations of the New Testament	3
REL 320	The Search for Jesus	3
REL 323	Jesus Traditions	3
REL 324	Early Christian Literature	3
REL 328	Jewish-Christian Relations and the New Testament	3

## II: Religion, History, and Society

Code	Title	Hours
REL 210	Jerusalem in History and Tradition	3
REL 230	Religion and the U.S. Constitution	3
REL 242	Sex, Death and Salvation	3

REL 244	Religion, Terrorism, and Violence	3
REL 246	Religion and Race	3
REL 266	Religious Sects and Cults	3
REL 267	Religion and Popular Culture	3
REL 330	Pope, Jefferson and Imam: A Study in Comparative Ethics	3
REL 331	Religion and Law	3
REL 332	Religion and Public Engagement	3
REL 335	Religious Ethics and the Problem of War	3
REL 336	Religious Traditions and Human Rights	3
REL 338	Religion, Ethics, and Politics	3
REL 341	Religion and Ecology	3
REL 342	Religious Intolerance in the U.S	3
REL 344	Religion, Poverty, and Social Entrepreneurship	3
REL 345	The African-American Religious Experience	3
REL 346	Religious Utopias and the American Experience	3
REL 347	Religion, Gender, & Sexuality	3
REL 348	Race, Memory, and Identity	3
REL 355	Jewish Identities: Religion, Race, and Rights	3
REL 356	Faces of Modern Judaism	3
REL 357	Jews in the United States	3
REL 364	Topics in U.S. Religious History	1.5-3
REL 365	History of Religions in America	3
REL 367	Christian Mysticism	3
REL 368	Protestant and Catholic Reformations	3
REL 369	Radical Christian Movements	3
REL 372	History of Christian Thought	3
REL 373	Special Topics in African-American Religious Traditions	3
REL 374	Black Messiahs and Uncle Toms	3
REL 375	Race, Myth, and the American Imagination	3
REL 376	Race, Religion, and Film	3
REL 378	Latin American Liberation Theologies	3

## III: World Religions

Code	Title	Hours
REL 265	Culture and Religion in Contemporary Native America	3
REL 280	God, Gods, and the Ultimate	3
REL 306	Ritual Studies	3
REL 329	Chinese Medicine	3
REL 339	Religion, Power, and Society in Modern Africa	3
REL 343	Religion, Culture, and the Body	3
REL 349	Asian Meditation Practices	3
REL 359	Hinduism in America	3
REL 360	Hindus, Muslims, & Sikhs in North America	3
REL 361	Topics in Buddhism	3
REL 362	Topics in Islam	3
REL 363	The Religions of Japan	3



REL 381	Zen Buddhism	3
REL 382	Religion and Culture in China	3
REL 383	The Quran and the Prophet	3
REL 384	Islam and Law: Varieties in Interpretation and Expression	3
REL 385	Topics in South Asian Religions	3
REL 386	Indian Epics	3
REL 387	Priests, Warriors and Ascetics in Ancient India	3
REL 388	South Asian Women: Religion, Culture and Politics	3
REL 389	Islam in the West: Changes and Challenges	3
REL 391	Topics in East Asian Religions	3
REL 392	Topics in First Peoples' Traditions	3
REL 393	Topics in Religions of Africa	3

## Honors

Highly qualified majors are encouraged to apply for admission to the honors program. Students who wish to pursue this option should refer to the honors guidelines, available on the Department website, for an overview of requirements and procedures. Upon completion of all requirements, a recommendation of honors at graduation will be made by the department based upon the student's overall academic record and the quality of the final project.

## Religious Studies, Minor

### Requirements

Requires 15 hours:

Code	Title	Hours
Select nine hours of courses above the 100-level		9
Select one upper-level course from Group III. World Religions		3

The department provides advisers for students pursuing a minor. Up to 3 hours of coursework completed outside the department may be counted toward the minor and no more than 3 hours of directed reading may be counted toward the minor. No NLL course may count toward the minor.

**A concentration in religion and public engagement for declared majors and minors in religious studies** requires 15 hours and provides an opportunity for students to undertake a community-based study of educational, economic, cultural and political development strategies, and action.

Code	Title	Hours
REL 332	Religion and Public Engagement	3
Select one of the following:		3
REL 200	Approaches to the Study of Religion	
REL 305	Ethnography of Religion	
REL 336	Religious Traditions and Human Rights	
REL 338	Religion, Ethics, and Politics	
REL 288	Field Program in Religion and Public Engagement (an internship)	3

Select two Elective Courses related to the community partner's context, history, and values \*

\* *Elective courses may be chosen from other departments and programs with approval from the RPE committee.*

## III: World Religions

Code	Title	Hours
REL 265	Culture and Religion in Contemporary Native America	3
REL 280	God, Gods, and the Ultimate	3
REL 306	Ritual Studies	3
REL 329	Chinese Medicine	3
REL 339	Religion, Power, and Society in Modern Africa	3
REL 343	Religion, Culture, and the Body	3
REL 349	Asian Meditation Practices	3
REL 359	Hinduism in America	3
REL 360	Hindus, Muslims, & Sikhs in North America	3
REL 361	Topics in Buddhism	3
REL 362	Topics in Islam	3
REL 363	The Religions of Japan	3
REL 381	Zen Buddhism	3
REL 382	Religion and Culture in China	3
REL 383	The Quran and the Prophet	3
REL 384	Islam and Law: Varieties in Interpretation and Expression	3
REL 385	Topics in South Asian Religions	3
REL 386	Indian Epics	3
REL 387	Priests, Warriors and Ascetics in Ancient India	3
REL 388	South Asian Women: Religion, Culture and Politics	3
REL 389	Islam in the West: Changes and Challenges	3
REL 391	Topics in East Asian Religions	3
REL 392	Topics in First Peoples' Traditions	3
REL 393	Topics in Religions of Africa	3

## Russian and East European Studies (REE)

Interdisciplinary Minor

The minor in Russian and East European Studies provides students with an opportunity to undertake a multidisciplinary study of the culture, economics, history, and politics of Russia and East Europe.

Appropriate credit in various fields of Russian and East European Studies also may be obtained by study abroad in programs approved by the Office of Global Programs and Studies and the coordinator. Students are strongly encouraged to study abroad as part of fulfilling the minor. Interested students are encouraged, preferably in their sophomore year, to consult with the coordinator or an affiliated faculty member to discuss their interests and structure a coherent course of study.

## Contact Information

Russian and East European Studies (<https://global.wfu.edu/global-campus/international-minors/russian-east-european-studies/>)

## Programs Minor

- Minor in Russian and East European Studies

## Courses

### Russian and East European Studies (REE)

#### REE 200. Introduction to Russian and East European Studies. (3 h)

An interdisciplinary survey of Russia and the Soviet Union, including an examination of society, polity, economy and culture over time. Also listed as HST 232. Students taking REE 200/HST 232 cannot receive credit for HST 230 or 231. (CD).

## Faculty

Coordinator, Associate Professor of History Susan Z. Rupp

## Russian and East European Studies, Minor

### Requirements

The minor requires a total of 18 hours; six of these may also count toward the student's major. Candidates for the minor are required to take:

Code	Title	Hours
REE 200	Introduction to Russian and East European Studies (sophomore or junior year)	3
Electives for Russian and East European Studies *		15

\* No more than six of these 15 hours may be in a single discipline.

Courses may be chosen from among the list of approved courses provided. Additional elective courses may have been approved since publication of this bulletin. The program coordinator maintains a complete list of all approved elective courses. Course descriptions may be found in the relevant department's listings in this bulletin.

### Electives for Russian and East European Studies

Additional elective courses may have been approved since publication of this bulletin. The program coordinator maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this publication.

Code	Title	Hours
COM 351B	Comparative Communication: Russia	1.5,3
ECN 352	International Finance	3
HST 230	Russia: Origins to 1865	3
HST 231	Russia and Soviet Union: 1865 to Present	3
HST 310	20th Century Eastern Europe	3
POL 232	Politics in Russia and Eastern Europe	3

Any RUS courses at or above the 200-level

Students may apply all relevant seminars, colloquia, or independent studies in any of the above departments to the minor.

## Self-Instructional Languages (SIL)

Self-Instructional Languages is a program for students who would like to study a language not offered by the University. Interested students are responsible for finding appropriate textbooks and an evaluator who:

1. Is fluent in the chosen language.
2. Holds an advanced degree.
3. Is a faculty member affiliated with an accredited college or university.

SIL 101, SIL 102 may count towards the minor in linguistics only with approval from the coordinator of linguistics. Any student interested in self-instructional language learning should submit an application to the SIL program coordinator by August 5 for the fall semester and by January 5 for the spring semester.

## Courses

### Self-Instructional Languages (SIL)

#### SIL 101. Self Instructional Language. (3 h)

A course in which students wishing to learn a language not offered at Wake Forest may arrange to study the language in consultation with a native speaker. This course does not count toward the linguistics minor without approval from the coordinator. Pass/Fail only. P-POI.

#### SIL 102. Self Instructional Language. (3 h)

A course in which students wishing to learn a language not offered at Wake Forest may arrange to study the language in consultation with a native speaker. This course does not count toward the linguistics minor without approval from the coordinator. Pass/Fail only. P-POI.

## Faculty

Coordinator, Associate Professor Tina Boyer/Department of German and Russian

## Sociology (SOC)

The Department of Sociology at Wake Forest University is a thriving community of teacher-scholars and students devoted to the scientific study and improvement of society. We provide students with an understanding of how communities have dynamic properties that exist independently of, and that structure the beliefs and actions of, any particular individuals. The basic idea behind this perspective is that the larger social context in which we live influences our social institutions, the social groups of which we are apart, our educational and occupational opportunities as well as our most private and personal experiences. Studying sociology is a critical part of a liberal arts education that prepares students for careers in law, medicine, education, public health, social work, business, criminal justice, non-profit organizations, and many other fields.

Our faculty conduct research and teach courses on a range of compelling topics, including the sociology of business, criminal justice, culture, education, emotions, family, gender, health, immigration, law, politics, race and ethnicity, religion, sport, and work. Our courses offer students the opportunity to examine the complex causes and consequences of stratification by socioeconomic status, gender, race, and sexual orientation. Students can earn certification for concentrations in three areas: crime and criminal justice; business and society; the social determinants of health and well-being.

**Study abroad and transfer credit** that can be applied to the sociology major/minor are limited to two courses (6h). For both study abroad and transfer credit, there is a bias against approval of theory, methods, and statistics courses, but these courses will be evaluated on a case-by-case basis. Where students take sociology courses abroad, they must be in Wake Forest approved programs and/or must have been certified by the department. Courses to be considered for transfer credit must be taught at an accredited college/university that offers a 4-year degree, by a faculty member who has a PhD in sociology, and the syllabus for the course must be provided for inspection. In addition, no divisional credit is given for sociology courses taken abroad or at other institutions. The sociology courses of students who are transferring to Wake Forest from other institutions will be considered on a case-by-case basis.

A student who selects sociology to fulfill the Division IV requirement must take one of the following courses:

Code	Title	Hours
SOC 150	Analyzing the Social World	3
SOC 151	Principles of Sociology	3
SOC 152	Social Problems	3
SOC 153	Contemporary Families	3
SOC 154	The Sociology of Deviant Behavior	3
SOC 155	Public Engagement in USA and Other Post-industrial Societies	3

No introductory-level course is required for students taking a sociology course as an elective unless specified in the course description.

## Contact Information

Department of Sociology (<http://college.wfu.edu/sociology/>)  
Kirby Hall 02A  
Phone 336-758-5495

## Programs

### Major

- B.A. in Sociology

### Minor

- Minor in Sociology

## Courses

### Sociology (SOC)

#### SOC 150. Analyzing the Social World. (3 h)

Introduction to key findings and explanatory concepts in sociology through exploring large-scale data sets. Topics may include stratification by socio-economic status, gender, race, and sexual identity. (D, QR)

#### SOC 151. Principles of Sociology. (3 h)

General introduction to the field; social organization and disorganization, socialization, culture, social change, social inequality, and other aspects. (D)

#### SOC 152. Social Problems. (3 h)

Survey of contemporary American social problems such as domestic and international poverty, education, immigration, crime and mass incarceration. (D)

#### SOC 153. Contemporary Families. (3 h)

The social basis of the family, emphasizing the problems growing out of modern conditions and social change. (D)

#### SOC 154. The Sociology of Deviant Behavior. (3 h)

A sociological analysis of the nature and causes of and societal reaction to deviant behavior patterns such as mental illness, suicide, drug and alcohol addiction, sexual deviation, and criminal behavior. (D)

#### SOC 155. Public Engagement in USA and Other Post-industrial Societies. (3 h)

An introduction to core concepts and explanations in social science for differences between the US and other nations on civic engagement, social mobility, educational attainments, public health, and leisure pursuits. (CD, D)

#### SOC 270. Sociological Theory. (3 h)

Introduction to classic and contemporary works of social theory, illustrating and exploring how sociologists analyze social forces, evaluate explanatory hypotheses, and prescribe social remedies. Authors explored range from the 19th century founding figures of Karl Marx, Max Weber, and Emile Durkheim, to contemporary theorists such as Ervin Goffman, Patricia Collins, Judith Butler, Michel Foucault, and Pierre Bourdieu. P - Any 100 level SOC course or POI.

#### SOC 271. Social Statistics. (4 h)

Computer-based survey of basic statistics utilized in sociological research. STA 111 (Elementary Probability and Statistics) or higher is strongly recommended as a prior course. Lab-1 hour. P-Any 100 level SOC course or POI. (QR)

#### SOC 272. Research Methods in Sociology. (3 h)

Overview of both quantitative and qualitative research methods. Research projects required. P - Any 100 level SOC courses or POI.

#### SOC 301. Sociology of Religion. (3 h)

Introduction to the sociological analysis of religion, including religious beliefs and experiences, the cultural context of religion, varieties of religious organization, religious change and social change. Also listed as REL 351.

#### SOC 303. Business and Society. (3 h)

Historical development, organization, and current problems of business enterprises in American society.

#### SOC 305. Gender in Society. (3 h)

The significance of gender in society for individuals and institutions. An examination of differential gender experiences based on race, class, and sexual orientation. Consideration of feminism as a social movement and the possibility for social change. (CD)

#### SOC 308. Sociology of Art. (3 h)

Art as an institution, its functions, organization, relationship to social change and to the communication of meanings.

#### SOC 309. Sexuality and Society. (3 h)

Study of the societal forces that impinge on human sexual behavior, emphasizing the effects of social change, the implications of changing gender roles, cross-cultural and subcultural variations, and the influence of the mass media.

#### SOC 316. Conflict Management in Organizations. (3 h)

An examination of conflict management and social control in organizations, focusing on power structures, management styles and processes of dispute resolution.

**SOC 320. Sociology of Sports and Art Worlds. (1.5 h)**

Seminar on social forces that structure the production and consumption of sports and the arts. Topics may include differences between American and world football; how culture capital determines engagement with the arts.

**SOC 321. Sociology of Contested Past. (1.5 h)**

Seminar on how societies remember their past and why it matters to contemporary social relations. Topics include cases studies of commemorative practices on the Nazi Holocaust, America's Civil War, and the relationship of American universities to slavery.

**SOC 325. The Individual and Society. (3 h)**

Introduces students to the field of sociological social psychology. Examines (1) how membership in social groups shape experiences; (2) the development of the self in social interaction; and (3) the creation of small group culture and structure. Also covers a range of substantive topics such as socialization, identity, emotions, prejudice, deviance, mental health and social change.

**SOC 327. Sociology of Emotion. (3 h)**

Exploration of the social side of emotion, including how emotions are socially learned, shaped, regulated, controlled and distributed in the population as well as the consequences of emotion norms, emotion management, emotional labor, and emotional deviance for individuals, social groups and society. P-one SOC course or POI.

**SOC 328. The Sociology of Food. (3 h)**

Examines systems of food production and their health consequences for workers and consumers; how social identities shape consumption choices and family food responsibilities; and analyzes food insecurity, food policy, and food-focused social movements from a sociological perspective.

**SOC 329. Health Inequalities. (3 h)**

Introduction to current sociological perspectives on the health and well-being of individuals, families, communities, and societies by examining the social determinants of inequalities in both mental and physical health (including reproductive health) based on socioeconomic status, gender, and race/ethnicity in the U.S. P-one SOC course or POI.

**SOC 330. Gender, Social Relationships, and Well-Being. (3 h)**

Examines how and why gender continues to shape men's and women's social relationships, including their social and economic well-being, their emotions and identities, as well as their mental and physical health over the life course. P-one SOC course or POI.

**SOC 331. The Social and Legal Contexts of Medicine. (3 h)**

Examines student socialization, the social structure of medicine and the social and legal contexts in which the medical profession exists and changes.

**SOC 334. Sociology of Education. (3 h)**

An evaluation of the major theories and significant empirical literature, both historical and statistical, on the structure and effects of educational institutions.

**SOC 335. Sociology of Health and Illness. (3 h)**

Examines processes of medicalization, the social experience of illness, cultural influences on the practice of medicine, and inequalities in access to care and resources to support health.

**SOC 336. Sociology of Healthcare. (3 h)**

Analyzes healthcare systems, including the social organization of medical practice, healthcare payment, the education of medical practitioners, and the division of the labor in healthcare.

**SOC 338. Courts and Criminal Procedure in the Era of Mass Incarceration. (3 h)**

An overview of the socio-organization of criminal courts and procedure in the US. The course examines the structure of courts, and questions how conceptualizations of justice and relationships of power have developed over time.

**SOC 339. Family Violence. (3 h)**

Examines family violence including child abuse, intimate partner violence, and elder abuse as well as the criminal justice response to these forms of violence.

**SOC 340. Corrections. (3 h)**

Surveys the political, economic and social factors influencing the historical development of the corrections system. Institutional corrections such as jails, boot camps and prisons will be examined as well as community-based approaches such as probation and parole.

**SOC 341. Criminology. (3 h)**

Introduction to the study of crime, including the development of criminal law, how crime is defined and measured, the patterns and trends of crime, and a review of theories explaining where, when, by whom and against whom crime happens.

**SOC 342. Juvenile Delinquency. (3 h)**

Examines the development of the juvenile justice system. Topics include the concept of childhood and delinquency, measurement of delinquent behavior, gender differences, the impact of relationships within the family, school, and peer groups, and an assessment of policies for control and prevention.

**SOC 343. Law and Society. (3 h)**

Study of the social and cultural factors in the development, maintenance, and change of legal structures and processes. Topics include law as a vehicle and agent of social change, the role of law in social control and dispute resolution, the structure and organization of the legal profession, and the images of law in popular culture.

**SOC 344. Social Justice in Theory, Method, and Practice. (3 h)**

Explores relationships between knowledge production, academic research, and social activism by surveying social science and humanities theory, research methods, and practice oriented toward social justice. Topics include critical theory, community-based research, and contemporary social movements.

**SOC 345. Advanced Seminar on Criminal Homicide. (3 h)**

Examines the various cultural and structural forces that have been identified as major factors in understanding criminal homicide.

**SOC 346. Sociology of Guns. (3 h)**

Examines the multifaceted roles guns play in the U.S. from a sociological perspective. Topics include the history and technology of firearms, origins and development of the 2nd Amendment to the U.S. Constitution, prevalence and distribution of guns, lawful possession and use of firearms, illegal gun markets, gun crime and injuries, gun politics and the efficacy of gun control.

**SOC 347. Society, Culture, and Sport. (3 h)**

An examination of the interrelationship of sport and other social institutions. Emphasis on the study of both the structure of sport and the functions of sport for society.

**SOC 348. Sociology of the Family. (3 h)**

The family as a field of sociological study. Assessment of significant historical and contemporary writings. An analysis of the structure, organization, and function of the family in America.

**SOC 351. Management and Organizations. (3 h)**

A study of macro-organizational processes and changes in contemporary industrial societies and their effects upon managerial systems, managerial ideologies and managers in firms.

**SOC 352. White-collar Crime. (3 h)**

Study of criminal activity committed in the course of legitimate occupations including workplace crime, graft, and business crime.

**SOC 354. Women in Poverty in the U.S.. (3 h)**

An examination of the structural causes of poverty and its consequences, with specific emphasis on women's overrepresentation in poverty and how gender intersects with race, family status, age, and place.

**SOC 355. Social Psychology of Inequality. (3 h)**

Introduction to social psychological perspectives on social inequality with a focus on microlevel structures and processes underlying inequality including gender, age, race/ethnicity, as well as socioeconomic and sexual minority status. P-one SOC course or POI.

**SOC 356. Sociology of Immigration. (3 h)**

Traces the waves of immigration historically and examines current policies and debates, with an emphasis on the political, economic, and social consequences of immigration in the post 1965 era. The focus will be on the United States, but will also consider cross-national comparisons. (CD)

**SOC 359. Race and Racism. (3 h)**

Examines the origins and effects of racial inequality and relationships between race and ethnic groups with a focus on the United States. (CD)

**SOC 360. Social Inequality. (3 h)**

The study of structured social inequality with particular emphasis on economic class, social status, and political power. (CD)

**SOC 362. Work, Conflict, and Change. (3 h)**

Changing trends in the United States labor force. The individual's view of work and the effect of large organizations on white- and blue-collar workers. Use of some cross-cultural data.

**SOC 363. Global Capitalism. (3 h)**

An analysis of industrial organization, including discussion of market relations and the behavior of firms, the structure of industrial development, and labor relations and the growth of trade unions. Also listed as INS 363.

**SOC 364. Power, Politics, and Protest. (3 h)**

Analyzes the interactions between politics, the state and society. Topics include public and social policies, political engagement and social movements, and social change.

**SOC 365. Technology, Culture, and Change. (3 h)**

Examines the interrelated forces that shape change in organizations and societies; from the emergence of capitalist markets to the systems, controls, and information revolution of the 21st century. Also listed as INS 365.

**SOC 366. Sociological Analysis of Film. (3 h)**

Examines the intersection of economic, organizational, and cultural sociology using films and the film industry as focal examples.

**SOC 367. Sociology of Culture. (3 h)**

Examines the most powerful explanatory schools in sociology in the fields of cultural production and consumption. Topics include: stylistic change and the consumption of visual and performance arts; musical tastes; the production and consumption of literature; museum attendance; education and culture; and architecture and design.

**SOC 368. Death and Dying. (1.5 h)**

Analyzes how the experience of physical decline is socially and medically managed, and the role social rituals play in the aftermath of death and grief.

**SOC 369. Social Movements. (3 h)**

Examines social movements and public protest with a focus on why movements arise, how they operate, and what effects they have on participants and on society.

**SOC 380. Special Topics Seminar in Social Institutions. (3 h)**

Intensive investigation of current scientific research on issues involving family, religion, education, politics, and sport.

**SOC 381. Special Topics Seminar in Social Inequality. (3 h)**

Intensive investigation of current scientific research on issues involving gender, class, race, poverty, and sexuality.

**SOC 382. Special Topics Seminar in Social Psychology. (3 h)**

Intensive investigation of current scientific research on issues in the areas of social psychology, the individual, and the social self.

**SOC 383. Special Topics Seminar in Medicine and Health Care. (3 h)**

Intensive investigation of current scientific research on issues in medicine, illness, and health care.

**SOC 384. Special Topics Seminar in Crime and Criminal Justice. (3 h)**

Intensive investigation of current scientific research on issues about crime, police, courts, and corrections.

**SOC 385. Special Topics Seminar in Business and Society. (3 h)**

Intensive investigation of current scientific research on issues in business, work markets, and management .

**SOC 386. Special Topics Seminar in Culture and Social Movements. (3 h)**

Intensive investigation of current scientific research on issues involving, culture, social change, and social movements.

**SOC 390. Special Topics Seminar in Sociology. (1.5-3 h)**

Survey of a selected area in sociology not covered in the regular course offerings. Prospective students should contact the professor before enrolling as topics will vary.

**SOC 391. Special Topics Seminar in Sociology. (1.5-3 h)**

Survey of a selected area in sociology not covered in the regular course offerings. Prospective students should contact the professor before enrolling as topics will vary.

**SOC 394. Research with Faculty. (0.5-3 h)**

Awards credit to students assisting with a research project led by a faculty member. Students can earn a maximum of six credits (pass/fail) between SOC 394 and 395, but only three credits can be counted toward the major or minor. P-POI.

**SOC 395. Research with Faculty. (0.5-3 h)**

Awards credit to students assisting with a research project led by a faculty member. Students can earn a maximum of six credits (pass/fail) between SOC 394 and 395, but only three credits can be counted toward the major or minor. P-POI.

**SOC 398. Individual Study. (1-3 h)**

Reading, research, or internship courses designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member.

**SOC 399. Individual Study. (1-3 h)**

Reading, research, or internship courses designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member.

## Faculty

**Chair** Catherine Harnois

**Professors** Catherine Harnois, Joseph Soares, Ian M. Taplin, David Yamane

**Associate Professors** H. Kenneth Bechtel, Hana E. Brown, R. Saylor Breckenridge, Amanda Gengler, Ana M. Wahl

**Assistant Professor** Brittany Battle, Alexandra Brewer, Andrea Gomez Cervantes

**Teaching Professor** Steven E. Gunkel

**Adjunct Assistant Professor** Yaqi Yuan

**Research Full Professor** Catherine Harris

**Research Assistant Professor** Robert Freeland

**Emeritus Professor** Catherine Harris

## Sociology, B.A.

### Requirements

Requires 31 hours. Students are required to complete:

Code	Title	Hours
<b>Required Major Courses</b>		
Four Core Courses		
One 100-level SOC course *		3
SOC 270	Sociological Theory **	3
SOC 271	Social Statistics **	4
SOC 272	Research Methods in Sociology **	3
<b>Concentrations within the Major</b>		
Students pursuing a major in sociology may elect to specialize in one of three concentrations:		12
Crime and Criminal Justice		
Business and Society		
Social Determinants of Health and Well-Being		

\* Students should take one 100-level SOC course in the freshmen or sophomore year prior to declaring their major in sociology. Any one but no more than two 100-level SOC courses will count towards the major. No 100-level SOC course taken by seniors can count towards the major.

\*\* Students are strongly encouraged to complete SOC 270 and SOC 271 in the fall of their junior year, and SOC 272 in the spring of their junior year.

A minimum average of 2.0 in all sociology courses is required at the time the major is declared. A minimum GPA of 2.0 in all sociology courses is required for graduation.

### Crime and Criminal Justice

The student must complete the requirements for the major in sociology including any four of the following SOC electives:

Code	Title	Hours
SOC 338	Courts and Criminal Procedure in the Era of Mass Incarceration	3
SOC 339	Family Violence	3
SOC 340	Corrections	3
SOC 341	Criminology	3
SOC 342	Juvenile Delinquency	3
SOC 343	Law and Society	3
SOC 345	Advanced Seminar on Criminal Homicide	3

SOC 346	Sociology of Guns	3
SOC 352	White-collar Crime	3
SOC 364	Power, Politics, and Protest	3
SOC 384	Special Topics Seminar in Crime and Criminal Justice	3

### Business and Society

The student must complete the requirements for the major in sociology including any four of the following SOC electives:

Code	Title	Hours
SOC 303	Business and Society	3
SOC 316	Conflict Management in Organizations	3
SOC 347	Society, Culture, and Sport	3
SOC 351	Management and Organizations	3
SOC 352	White-collar Crime	3
SOC 362	Work, Conflict, and Change	3
SOC 363	Global Capitalism	3
SOC 365	Technology, Culture, and Change	3
SOC 366	Sociological Analysis of Film	3
SOC 385	Special Topics Seminar in Business and Society	3

### Social Determinants of Health and Well-Being

The student must complete the requirements for the major in sociology including four classes in the concentration:

Code	Title	Hours
Select two of the following:		6
SOC 329	Health Inequalities	
SOC 330	Gender, Social Relationships, and Well-Being	
SOC 331	The Social and Legal Contexts of Medicine	
SOC 335	Sociology of Health and Illness	
SOC 336	Sociology of Healthcare	
SOC 339	Family Violence	
Select the remainder from the following:		
SOC 305	Gender in Society	
SOC 309	Sexuality and Society	
SOC 327	Sociology of Emotion	
SOC 328	The Sociology of Food	
SOC 334	Sociology of Education	
SOC 340	Corrections	
SOC 355	Social Psychology of Inequality	
SOC 368	Death and Dying	
SOC 383	Special Topics Seminar in Medicine and Health Care	

Students must petition the department for substitutions. A minimum of 31 hours is required for each program. Students who complete the requirements for a concentration are awarded a certificate by the department and have the concentration included on their college transcript.

## Honors

Students will be awarded the designation "Honors in Sociology," if their GPA in the major at the time of graduating is 3.8 or higher. Students interested in doing independent research must gain the consent of an appropriate faculty member and sign up for a SOC 398 or SOC 399.

## Sociology, Minor

### Requirements

Requires 15 hours and must include:

Code	Title	Hours
Select at least one but no more than two 100-level SOC courses*		
Select at least one of the following 200-level courses:		3
SOC 270	Sociological Theory	
SOC 271	Social Statistics	
SOC 272	Research Methods in Sociology	

\* No 100-level sociology course taken by seniors may count towards the minor.

A minimum GPA of 2.0 in sociology courses is required at the time the minor is declared. A minimum GPA of 2.0 in sociology courses is required for certification as a minor. Students who intend to pursue a sociology minor are encouraged to notify the department early in their junior year, and they are invited to participate in all departmental functions.

## Spanish and Italian (SPA/ITA)

The Department's mission is to guide students towards proficiency in Spanish or Italian and toward the knowledge necessary to communicate effectively in a variety of cultural contexts. Foreign language literacy and intercultural competence are central components of a liberal arts education and open up diverse and unique career opportunities.

### Programs

The Department offers programs leading to a major in Spanish, minors in Spanish and Italian, and concentrations in Spanish for Business, Spanish for Health Professions, Spanish Translation/Localization and Spanish Interpreting. The requirements for completion of each degree program are those in effect in the bulletin year when the declaration of the major, minor, and concentration occurs.

### Study Abroad

The Department strongly encourages student of Spanish and Italian to spend a year, a semester, or a summer studying abroad. Overseas study in concert with on-campus coursework helps students develop greater fluency, deeper knowledge of other cultures, and increased awareness of their own language, attitudes, and beliefs.

### Special Notes

**Pass/fail Policy for 100-Level Language Courses:**

Sophomores, juniors, and seniors may choose to take 100-level language courses pass/fail, subject to instructor approval and the following requirements:

1. Pass/fail students must achieve an overall course grade of C or better to pass.
2. Pass/fail student are subject to the same attendance policy as all students.
3. Pass/fail student must complete each component of the course included in the syllabus grade breakdown. That is, students will not be able to skip any one part of the course, such as homework or the final exam, and still earn a pass grade.

#### Transfer credit Policy:

Transfer credit **from American universities** must be pre-approved before courses are taken by students. Course instruction and coursework must be entirely in Spanish. No online courses will count towards the major or minor. Courses must be similar in content and coursework to those listed under Spanish and Italian in the Undergraduate Bulletin.

Transfer credit **from non-WFU study abroad programs** will be approved as 500 or 520 credit. Transfer credit as 500 will count as elective credit for the major or minor (limit of 3 credits). Transfer credit approved as 520 will count as general elective credit towards graduation.

No more than 3 hours of credit from non-Wake Forest (affiliate) study abroad programs will count towards a Spanish major or minor.

## Contact Information

Department of Spanish & Italian (<http://college.wfu.edu/spanishitalian/>)  
Greene Hall 324, Box 7566  
Phone 336-758-5487

## Programs

### Major

- B.A. in Spanish

### Minor

- Minor in Italian Language and Culture
- Minor in Spanish

## Foreign Area Studies

- Italian Studies
- Spanish Studies

## Concentrations

- Concentration in Spanish for Business
- Concentration in Spanish for Health Professions
- Concentration in Spanish Interpreting
- Concentration in Spanish Translation/Localization

## Summer Programs and Study Abroad Summer Programs for the Language Requirement

- Intensive Summer Language Institute (ISLI)
- Salamanca 212 Program

## Study Abroad Programs in Spanish

- Salamanca, Spain (spring or fall)
- Buenos Aires, Argentina and Santiago, Chile (spring only)
- Havana, Cuba (summer)
- Salamanca, Spain (summer)

## Study Abroad Programs in Italian

- Venice, Italy: Casa Artom (spring or fall)
- Sorrento, Italy (summer)

## Courses

### Italian (ITA)

#### ITA 111. Elementary Italian I. (3 h)

Beginners course covering grammar essentials and emphasizing speaking, writing, and the reading of elementary texts. Lab required. ITA 111 and 112 count for students in the Venice program.

#### ITA 112. Elementary Italian II. (3 h)

Beginners course covering grammar essentials and emphasizing speaking, writing, and the reading of elementary texts. Lab required. ITA 111 and 112 count for students in the Venice program.

#### ITA 113. Intensive Elementary Italian. (4 h)

Intensive course for beginners, emphasizing the structure of the language and oral practice. Recommended for students in the Venice program and for language minors. Credit not given for both ITA 113 and ITA 111 or 112. Lab required. Lecture. By placement or faculty recommendation.

#### ITA 153. Intermediate Italian. (4 h)

Continuation of ITA 113, with emphasis on speaking, developing students' reading, writing skills and preparing them for oral and written discussion of literary texts in ITA 212 or 213. Lab required. P-ITA 112 or 113.

#### ITA 154. Intermediate Italian. (3 h)

An intermediate-level course intended for students who have taken the 111-112 sequence. It offers the opportunity to develop further their reading, writing and conversation skills and prepare for oral and written discussion of literary texts in ITA 212 or 213. Lab required. P-ITA 111-112.

#### ITA 196. Italian Across the Curriculum. (1.5 h)

Coursework in Italian done as an adjunct to specially-designated courses throughout the College curriculum. May be taken for grade of Pass/Fail. P-POI.

#### ITA 197. Italian for Reading Knowledge. (1.5 h)

Review of essential Italian grammar, usage, vocabulary, and processing strategies for reading various types of literary, social science, and technical publications for content. Designed for students interested mainly in strengthening reading proficiency in the language and aimed at preparing students to take the graduate reading exam administered at the end of the course. Undergraduate credit given. Offered in the first half of the semester. P-Intermediate Italian or equivalent and placement exam.

#### ITA 212. Exploring the Italian World. (3 h)

Continued language study through exploration of significant cultural expression from the multifaceted Italian world. Credit not given for both ITA 212 and 213. P - ITA 153 or equivalent.

#### ITA 213. Introduction to Italian Literature. (3 h)

Reading of selected texts in Italian. Satisfies basic requirement in foreign language. Students cannot receive credit for both ITA 212 and 213. P-ITA 153 or equivalent.

#### ITA 217. Studies of Italy. (3 h)

Survey course on Italian literature from authors from the various regions of Italy and on special cultural themes such as Italian immigration and new immigrations in Italy to give to students in Venice a deeper and broader understanding of Italian cultural complexity. Only taught in Venice. P - ITA 212 or 213 or POI.

#### ITA 260. Contemporary Italy. (3 h)

Study of society and culture in contemporary Italy. Offers elements of civilization, arts, gender, politics, literature and cinema and includes Italian-American studies. Intended for students interested in continuing Italian beyond the language requirement. P-ITA 212, 213 or POI.

#### ITA 280. Business Italian. (3 h)

Development of vocabulary and communication skills necessary to operate in Italian business settings. Emphasis on cross-cultural competency in the context of Italian business practices. P-ITA 212 or 213.

#### ITA 319. Grammar and Composition. (3 h)

Review of the basics of structure and vocabulary; detailed examination of syntax and idiomatic expressions; practice in translation of texts of diverse styles and from varied sources; and free composition. P-ITA 212, 213 or 216 or equivalent.

#### ITA 324. Italian Regional Cultures. (3 h)

Focuses on different aspects of regional cultures in Italy. Emphasizes local lifestyles, literatures, and cinematography. Regional cultures and historic background are analyzed and compared through class demonstrations and cultural artifacts. P - ITA 319 or POI.

#### ITA 326. Comedy in Italian Cinema. (3 h)

Study of modern Italian society through the analysis of films from the 1950s to the present. Taught in Italian. P - ITA 319 or POI.

#### ITA 327. Modern Italian Cinema. (3 h)

Study of the major developments of modern Italian cinema. Full-length feature films by Federico Fellini, Ettore Scola, Pier Paolo Pasolini, Bernardo Bertolucci, Marco Bellocchio, Gianni Amelio, Nanni Moretti, Gabriele Moretti Salvatores, Giuseppe Tornatore, Massimo Troisi, Roberto Benigni, and other Italian filmmakers will be studied and discussed from different perspectives. P - ITA 319 or POI.

#### ITA 328. Dante's Divine Comedy. (3 h)

Introduces Italian medieval literature and culture through a selected, critical reading of Dante's masterpiece and other medieval texts. Introduces students to the intellectual and social context of the Italian Middle Ages by relating the texts to the cultural, political, social, and philosophical concerns of the period. P - ITA 319 or POI.

#### ITA 329. Love, Gender, and Diversity in Italian Epic. (3 h)

The course focuses on spaces and modalities of representation of love, gender, and diversity in Italian epic through text and images, including films. P - ITA 319 or POI.

#### ITA 333. Italian Theatre. (3 h)

Study of representative Italian drama such as commedia dell'arte and works from Machiavelli, Goldoni, and Dario Fo. P - ITA 319 or POI.

#### ITA 335. Italian Women Writers. (3 h)

Study of representative novels by women writers from Italy and the Italian world, with emphasis on the historical novel within its cultural context. P - ITA 319 or POI.



**ITA 336. Italian Women and the City. (3 h)**

This course proposes, through Italian readings and films, the interpenetration of women's lives with the urban environment, both physical and imagined. It proposes to be a guide to mapping not only how city spaces shape or limit women's lives, but also how women participate in the construction or reconstruction of these spaces. P-ITA 319 or POI.

**ITA 338. South in Contemporary Italy. (3 h)**

Throughout centuries of struggles for nationhood, southern Italy as a society dealt with many obstacles: hastened modernization, regionalism and organized crime. This course examines southern Italy as a society through history, short novels, films, newspapers and academic articles within a national perspective. P-any 200-level course.

**ITA 340. Traveling with Muhammad and Dante. (3 h)**

Examines, in literary and visual forms, the Book of the Ladder of Muhammad and Dante's *Inferno* where the journeys of the two travelers into the afterlife are narrated. P-ITA 319 or POI.

**ITA 342. Boccaccio's Decameron or "Sex in the City": Rethinking Community in Medieval Florence. (3 h)**

Studies the impact of the plague that hit Europe in 1348 and the power of storytelling to rebuild the community. P - ITA 319 or POI.

**ITA 346. Narrating and Visualizing the Mediterranean in the Italian Trecento. (3 h)**

This course examines the representation of the Mediterranean through texts and images. P - ITA 319 or POI.

**ITA 375. Special Topics. (3 h)**

Selected special topics in Italian literature. P - ITA 319 or POI.

**ITA 381. Italian Independent Study. (1.5-3 h)**

May be repeated once for credit. P - POI.

## Italian Literature and Culture in English (IAS)

In addition to courses taught in Italian, the Department offers these course on Italian literature and culture in English. Courses marked with (D) carry Division II credit.

**IAS 210. Introduction to Italian Literature. (3 h)**

Italian literature through the centuries focusing on Italy's most significant contributions to Western literature and culture. Includes major works in poetry, theater, and novels that explore Italian historical, social, and cultural experiences and reflect on the process of literary creation. (D)

**IAS 212. Contemporary Italian Fiction. (3 h)**

Introduction to works of fiction in post-World War II Italy. Themes vary and may include historical trauma, the changing faces of Italy, and the role and forms of fiction in the contemporary world. (D)

**IAS 214. Italian Drama. (3 h)**

Survey of Italy's most influential contributions to the history of theater, ranging from *Commedia dell'arte*, Renaissance spectacle, and the bourgeois theater of Carlo Goldoni to the Nobel prize-winning 20th century playwrights Luigi Pirandello and Dario Fo. (D)

**IAS 220. Italian Women Writers. (3 h)**

Through readings, films, and documentaries, explores the foremost issues concerning contemporary women's writing in the Italian context —women's fight against marginalization and struggle for freedom, both economic and social, and the right to assert themselves. (D)

**IAS 310. Italian Historical Fiction. (3 h)**

Inquiry into Italian novels and stories blending fictional and historical elements. (D)

**IAS 325. Italian Neorealism in Films and Novels. (3 h)**

Study of important films, novels, and short stories of Italian Neorealism, including considerations of the history, philosophy, politics, artistic movements and civic renaissance of postwar Italian life that led to its development. (D)

**IAS 360. Dante. (3 h)**

Study of the *Divina Commedia* as epic, prophecy, autobiography, and poetry, relating it to antiquity, Christianity, Dante's European present, the birth new intellectual and poetic forms, and Dante's own afterlife in the West. (D)

**IAS 380. History of Italian Cinema. (3 h)**

Examines the cultural history and aesthetics of motion pictures through the works of significant Italian filmmakers and genres from silent era to the 21st century.

## Portuguese (PTG)

**PTG 111. Elementary Portuguese. (3 h)**

Two-semester sequence designed to help students develop the ability to understand and speak Portuguese and also learn to read and write Portuguese at the elementary level. Labs required.

**PTG 112. Elementary Portuguese. (3 h)**

Two-semester sequence designed to help students develop the ability to understand and speak Portuguese and also learn to read and write Portuguese at the elementary level. Labs required.

**PTG 113. Intensive Elementary Portuguese. (4 h)**

Intensive introduction to Portuguese designed to help students develop the ability to understand and speak Portuguese and also learn to read and write Portuguese at the elementary level. P-POI.

**PTG 153. Intermediate Portuguese. (4 h)**

Intermediate-level course covering the structure of the language, developing students' reading, writing and conversation skills and preparing them for oral and written discussion of readings. Note that PTG 153 and 154 are mutually exclusive. Labs required. P-PTG 113 or POI.

**PTG 154. Accelerated Intermediate Portuguese. (3 h)**

Intensive intermediate-level course. Offers the opportunity to develop further reading, writing and conversation skills and prepare for oral and written discussion of readings. Labs required. P-PTG 113 or POI.

**PTG 212. Exploring the Lusophone World. (3 h)**

Exploration of significant cultural expressions from the Portuguese-speaking world. Emphasis on the development of competence in speaking, reading and writing Portuguese and on understanding how particular Lusophone societies have defined themselves. Offered only upon sufficient demand. P-PTG 153 or 154 or equivalent.

## Spanish (SPA)

**SPA 111. Elementary Spanish I. (3 h)**

A two-semester sequence designed to help students develop the ability to understand and speak Spanish and also learn to read and write Spanish at the elementary level. Labs required.

**SPA 112. Elementary Spanish II. (3 h)**

A two-semester sequence designed to help students develop the ability to understand and speak Spanish and also learn to read and write Spanish at the elementary level. P-SPA 111 or equivalent. Labs required.

**SPA 113. Intensive Elementary Spanish. (4 h)**

A course reviewing the material of SPA 111-112 in one semester, intended for students whose preparation for SPA 153 is inadequate. Credit not given for both SPA 113 and SPA 111 or 112. Labs required. By placement or faculty recommendation.

**SPA 153. Intermediate Spanish. (4 h)**

Intermediate-level course covering the structure of the language, developing students' reading, writing, and conversation skills and preparing them for oral and written discussion of readings. Note that SPA 153 and 154 are mutually exclusive. Labs required. P—SPA 111-112, or 113; or placement.

**SPA 153S. Intensive Beginning and Intermediate Spanish in an Immersion Setting. (5 h)**

Designed to enable students to achieve proficiency in Spanish language at the beginning-intermediate level by developing reading, writing, and conversation skills and preparing students for oral and written discussion of readings. Offered only in the summer. (ISLI) P—SPA 112 or 113; or placement; or POI.

**SPA 154. Accelerated Intermediate Spanish. (3 h)**

An intensive, intermediate-level course intended for students with a stronger background than 153 students. It offers the opportunity to develop further their reading, writing, and conversation skills and prepare for oral and written discussion of readings. Labs required. P-POI or placement.

**SPA 195. Spanish Language and Culture. (1-3 h)**

Spanish vocabulary, grammar, and culture. Offered only in Wake Forest study abroad programs. P-POI.

**SPA 197. Spanish for Reading Knowledge. (1.5 h)**

Review of essential Spanish grammar, usage, vocabulary and processing strategies for reading various types of literary, social science and technical publications for content. Designed for students interested mainly in strengthening reading proficiency in the language, and aimed at preparing students to take the graduate reading exam administered at the end of the course. Undergraduate credit given. Offered in the first half of the semester. Pass/Fail only. P-Intermediate Spanish or its equivalent, and placement exam.

**SPA 198. Service Learning in Spanish Language. (1.5 h)**

Experiential learning that links classroom instruction and community service done as an adjunct to specially-designated courses throughout the Spanish curriculum. Pass/Fail only. May be repeated for credit. P-POI.

**SPA 199. Internship in Spanish Language. (1.5, 3 h)**

Under faculty direction, a student undertakes a language project in conjunction with a service commitment or internship in a Spanish-speaking country. Includes, but is not limited to, vocabulary building, keeping a journal, and reading professional material. Offered only in Salamanca. May be repeated for credit. Pass/fail only. P - SPA 309 or 309L; or POI.

**SPA 212. Exploring the Hispanic World. (3 h)**

Explores significant cultural expressions from the Spanish-speaking world. Emphasizes both the development of competence in speaking, reading and writing Spanish, and understanding how particular Hispanic societies have defined themselves. Credit not allowed for both SPA 212 and 213. P—SPA 153; or equivalent.

**SPA 213. Encounters: Hispanic Literature and Culture. (4 h)**

Encounters with significant literary expressions from the Spanish-speaking world. Emphasizes the advancement of competence in speaking, reading and writing, and the analysis of literature in its cultural contexts. Credit not allowed for both 213 and 212. P—SPA 153 or equivalent.

**SPA 280. The Spanish-Speaking World: Portals and Perspectives. (3 h)**

Examination of the diversity of cultural, linguistic, and artistic expressions and the role of Spanish in today's globalized world. P—SPA 212 or 213; or POI; or placement.

**SPA 280L. The Spanish-Speaking World: Portals and Perspectives for Heritage Speakers. (3 h)**

Examination of the diversity of cultural, linguistic, and artistic expressions and the role of Spanish in today's globalized world. Open to heritage speakers of Spanish only. P-SPA 212 or 213; or POI; or placement.

**SPA 290. Workshop in Critical Reading and Writing. (3 h)**

Practice in language analysis with emphasis on developing effective reading and writing strategies. Not open to students who have already completed 7 hours in the major. P-SPA 212 or 213; or POI.

**SPA 300A. Spanish Across the Curriculum. (1.5 h)**

Course work in Spanish done as an adjunct to specially-designated courses throughout the college curriculum. May be taken for grade or Pass/Fail. May be repeated for credit. P-POI.

**SPA 300B. Spanish Across the Business/Economics Curriculum. (1.5 h)**

Coursework in Spanish done as an adjunct to specifically-designated courses in business and economics curriculum. May be repeated for credit. P-POI.

**SPA 300C. Spanish Across the Sciences Curriculum. (1.5-3 h)**

Coursework in Spanish done as an adjunct to specifically-designated courses in the sciences and medical curriculum. May be repeated for credit. P-POI.

**SPA 301. Intensive Spanish. (1.5 h)**

Intensive study and practice of the oral and written languages. Familiarization with Spanish culture and daily life. Classes in conversational and idiomatic Spanish, excursions to points of interest and lectures on selected topics. Pass/Fail only. Does not count towards the major or minor.

**SPA 303. Spanish Conversation. (3 h)**

Based on cultural material intended to increase students' aural skills and oral proficiency by systematically increasing vocabulary and reinforcing command of specific grammatical points. Counts toward the major. Students whose speaking skills, in the instructor's judgment, are already advanced, may not enroll. P—200-level course or equivalent.

**SPA 303I. Language Study in the Context of an Internship. (1.5, 3 h)**

Development of oral proficiency and writing skills. Reading, discussions, and writing assignments based on texts relevant to internships being undertaken by students. Must be taken in conjunction with SPA 199. The combinations of this course and SPA 199 may count as a maximum of 3 hours toward the major or minor. P - a 200-level course.

**SPA 304. Selected Topics in Spanish Language and Hispanic Culture. (3 h)**

Topics vary. Offered only in Abroad Programs. May be repeated for credit when the topic changes. P - 200-level SPA course or equivalent.

**SPA 309. Grammar and Composition. (4 h)**

Systematic study of Spanish morphology, sentence structure, and expository usage applied to various kinds of composition, including description, narration, and argumentation. P— SPA 280 or equivalent.

**SPA 309L. Grammar and Composition for Heritage Speakers of Spanish. (4 h)**

Systematic study of Spanish orthography, word formation, sentence structure, and expository usage applied to various written forms. Emphasis on grammatical knowledge, vocabulary development, and extensive writing practice. Content and skills intended for heritage speakers who are competent in spoken Spanish but want to improve their writing skills. P—200-level course or equivalent and POI.

**SPA 310. Anecdotes, Bestsellers, Cuentos. The ABCs of Storytelling in the Spanish-Speaking World. (3 h)**

Traces the development of prose fiction and non-fiction, with special attention to signature movements, texts, and representative writers. P—SPA 280 or 290.

**SPA 311. Bard, Ballad, Bolero. Poetry, and Song in the Spanish-Speaking World. (3 h)**

Survey of poetry and music with study of representative examples from a variety of periods and countries. P—SPA 280 or 290.

**SPA 312. Page, Stage, and Performance. Theater and Drama of the Spanish-Speaking World. (3 h)**

Survey of theatrical productions and dramatic texts with study of representative examples from a variety of periods and countries. P—SPA 280 or 290.

**SPA 313. Lights, Camera, ¡Acción!. Cinema and Culture in the Spanish-Speaking World. (3 h)**

Traces the development of cinematic arts and industry, with special attention to signature movements, films, and directors and the representation of cultures on screen. P—SPA 280 or 290.

**SPA 315. The Making of Spain: Interdisciplinary Approaches to the Cultures of Spain. (3 h)**

Examination of Spain's cultural pluralism through visual arts, architecture, film, music, and literature from the medieval period to the present. P—SPA 280 or 290. (CD)

**SPA 316. Paradise in Perspective: An Interdisciplinary Approach to the Wider Caribbean. (3 h)**

Examination of Hispanic Caribbean cultures through visual arts, architecture, film, music, and literature from the pre-Columbian period to the present. P—SPA 280 or 290. (CD)

**SPA 317. Distant Neighbors: Interdisciplinary Approaches to Mexico and Central America. (3 h)**

Examination of Mexican and Central American cultures within today's global world through visual arts, architecture, film, music, and literature from the pre-Columbian period to the present. P - SPA 280 or 290. (CD)

**SPA 318. The Andes to Patagonia: Interdisciplinary Approaches to South American Culture. (3 h)**

Examination of Andean and Southern Cone cultures through visual arts, architecture, film, music, and literature from the pre-Columbian period to the present. P—SPA 280 or 290. (CD)

**SPA 319. Literary and Cultural Studies of Spanish America. (3 h)**

Study of selected major works of Spanish-American literature within their historical and cultural contexts. Emphasis on linguistic and political structures, intellectual currents, art, music, and film to promote understanding of Spanish America's historical development. Offered only in WFU abroad programs. P-SPA 280 or 290. (CD)

**SPA 320. Introduction to Hispanic Linguistics. (3 h)**

Survey of the core areas in Hispanic linguistics: phonetics, phonology, morphology, syntax, semantics, and language variation. Basic concepts and methodology of linguistic analysis as preparation for further study in the field. P—SPA 309 or 309L.

**SPA 322. Spanish pronunciation and Dialect Variation. (3 h)**

Description of, and practice with, the sounds, rhythm, and intonation of Spanish and the differences from English, with special attention to social and regional diversity. Strongly recommended for improving pronunciation. Meets a N.C. requirement for teacher certification. P—SPA 309 or 309L.

**SPA 325. Spanish for Business I. (3 h)**

Introduction to the vocabulary and skills necessary to perform effectively in Hispanic business settings. Emphasis on oral and written practices, reading, and intercultural knowledge of business practices. P-SPA 309 or 309L or POI.

**SPA 326. International Business: Spain/Latin America. (3 h)**

Study of characteristic features of Spanish and/or Latin American business culture. Focuses on communicating successfully in the world of Hispanic commerce and on acquiring an international view of current issues in business. Offered only in WFU abroad programs. P-SPA 309 or 309L or POI.

**SPA 327. Spanish for Business II. (3 h)**

Continued study of the discourse used in Hispanic business settings. Emphasis on oral and written business presentations, reading and analysis of case studies, and intercultural knowledge of the business world. P-SPA 309 or 309L or POI.

**SPA 328. Medical Spanish. (3 h)**

Study of terminology and sociocultural issues relevant to interlinguistic medical communication. Oral and written practice in the medical context. P - SPA 309 or 309L; or POI.

**SPA 329. Intermediate Topics in Literary and Cultural Studies. (3 h)**

Selected topics in Spanish and/or Spanish-American literature and culture offered at an intermediate level. Topics vary. Offered only in WFU abroad programs. May be repeated for credit when topic changes. P-SPA 280 or 290.

**SPA 330. The Debate about Woman in Late Medieval Spain. (3 h)**

Explores romantic love in the Iberian Peninsula in the 14th and 15th centuries focusing on the debate about woman as an index of the social changes happening at that moment. P— any course in SPA 310-SPA 319 sequence; or POI.

**SPA 331. Medieval Spain: A Cultural and Literary Perspective. (3 h)**

Examines literary, social, and cultural themes, such as: Quests and Discoveries, Pilgrimage and the Act of Reading, Images of Islam, The Judaic Tradition in Spanish Literature, and Spiritual Life and Ideal. P— any course in SPA 310-SPA 319 sequence; or POI.

**SPA 332. The Golden Age of Spain. (3 h)**

Close analysis of literary texts, such as *Lazarillo de Tormes*, and study of the history, art, politics, and economics of the 16th and 17th centuries, with emphasis on themes such as the writer and society, humanism, the picaresque, Catholic mysticism, and power and politics. P— any course in SPA 310-SPA 319 sequence; or POI.

**SPA 333. The Spain of Don Quijote. (3 h)**

Study of the novel *Don Quijote* and its film adaptations, with emphasis on the portrayal of gender roles and individual and collective identity. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 334. Voices of Modern Spain. (3 h)**

Study of the multifaceted cultural identity of contemporary Spain through different literary genres, art, and film. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 335. Love, Death, and Poetry. (3 h)**

Study of the representation of universal themes in Spanish poetry from different historical periods. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 336. Lorca, Dali, Bunuel: An Artistic Exploration. (3 h)**

Study of the relationship of these three Spanish artists through their writings, paintings, and films, respectively, and of their impact on the 20th century. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 337. Contemporary Theater from Spain. (3 h)**

Study of major dramatic works from Spain. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 338. Fashioning Class, Gender, and National Identity in 18th/19th-Century Spain. (3 h)**

Explores representations of social class, gender, and national identity in the literature and visual culture of Spain (fashion, illustrated press, etc.) of 18th/19th-Century Spain. Topics vary, but overarching themes may range from royal identity and Enlightenment to industrialization and middle-class culture. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 341. Latin American Historical Fiction: Memory, Myth, and Social Justice. (3 h)**

Introduction to the ways Latin American historical fiction has shaped public memory over the past five centuries. Representative novels, plays, poems, films, and short stories. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 342. From Colonial to Postcolonial Voices. (3 h)**

Exploration of twentieth- and twenty-first century literary, artistic, and cinematic adaptations of colonial stories of discovery by writers, artists, and filmmakers from Spain and Spanish America. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 343. Travel Literature. (1.5-3 h)**

Analyzes various cultural documents to ask questions such as: what do travelers report seeing, how do they describe their journeys and why? In the past and the present, how has travel literature influenced European perceptions of the Americas and vice versa? P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 344. The 18th- and 19th-century Periodical Press in Spain and Spanish America. (1.5-3 h)**

Explores the role of newspaper culture for Enlightenment projects. Topics include patriotism, national histories, natural histories, cultural critique, science and satire. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 345. The Transatlantic Civil War. (3 h)**

Exploration of the artistic and literary responses to the Spanish Civil War. Emphasis on the resulting cultural exchange among Spain, Latin America, and the United States. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 346. Transatlantic Transitions: Postdictatorship in Spain and the Southern Cone. (3 h)**

Examination of the intersections among trauma, memory, and culture in Spain, Argentina, Chile, and Uruguay during and after the rule of dictatorial regimes in the late twentieth century. Relates political needs for reconciliation, reconstruction, and remembrance to specific aesthetic strategies. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 347. Contemporary Theater in Spain and Spanish America. (3 h)**

Study of contemporary Peninsular and Spanish-American theater within its political, social, cultural, and aesthetic context. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 348. Contemporary Women Novelists and their Female Characters. (3 h)**

Study of representative novels by women writers from Spain and Latin America, with emphasis on the representation of the female protagonist within her cultural context. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 349. Great Authors and Directors. (1.5-3 h)**

Study of works by a major Hispanic author or film director with attention to formative contexts as well as aesthetic, cultural, and socio-political legacies. May be repeated for credit when focus changes. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 350. Film Adaptations of Literary Works. (3 h)**

Study of the cinematic and literary discourses through major Spanish literary works from different historical periods and their film adaptation. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 351. Cinema and Society. (3 h)**

Exploration of a specific national or regional film history with particular attention to cinematic representations of social, political, and cultural contexts. May be repeated for credit when focus changes. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 355. Romantic Nationalism, Avant-garde Nihilism, and the Deconstruction of Utopia. (3 h)**

Study of Latin-American poetry, including symbolist, surrealist, and conversational poetry, "happenings," and artistic manifestoes. Politics, nation-building, liberation theology, and love are common themes. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 356. Transgressing Borders: Identity in Latin-American and U.S. Latino Cultures. (3 h)**

Socio-historical study of theories on culture, sexual politics, and race in relation to literary texts, lyrics of popular music, and art of Latin America and the diaspora. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 357. Spanish American Short Story. (3 h)**

Intensive study of the 20th-century Spanish-American short story with emphasis on major trends and representative authors, such as Quiroga, Rulfo, Borges, Cortázar, Donoso, and García Márquez. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 358. Spanish-American Novel. (3 h)**

Study of the novel in Spanish America from its beginning through the contemporary period. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 359. Spanish-American Theater: From Page to Stage. (3 h)**

Study of the transition of a dramatic work from text to performance and the role of Spanish-American theater as a vehicle for cultural values and socio-political issues. Includes rehearsals for the public staging of selected one-act plays. Proficiency in Spanish and willingness to act on stage are required. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 360. Contemporary Theatre. (3 h)**

Study of major dramatic works from various Latin-American countries. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 361. Fictions of Mexican Revolution. (3 h)**

Explores 20th-century Mexican cultural production as it relates to the Mexican Revolution (1910-1920). Readings include novels, shorts stories, popular poetry, and historiographic texts. Attention to Mexican muralism and cinema, and special emphasis on relationships between literature, history, and contemporary politics. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 362. Masculinity in Mexican Cinema. (3 h)**

Explores representations of masculinity in contemporary Mexican film (1990-present) with attention to film genres, aesthetic movements, national and global sociopolitical contexts, and gender politics. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 363. Cultural and Social Entrepreneurship: Promotion of Latin American and Latino Societies. (3 h)**

Sparks interdisciplinary entrepreneurial thinking about careers in arts and educational organizations that both serve and promote Latino communities and provides the knowledge and skills to implement effective programming. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 364. Indigenous Literatures and Visual Arts in Latin America. (3 h)**

Study of the images, identities, and self-representations of contemporary indigenous societies in 20th- and 21st-century Latin America. Analysis and discussion of literary texts and visual arts. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 366. Advanced Topics in Literary and Cultural Studies. (3 h)**

Selected topics in Spanish and/or Spanish-American literature and culture offered at an advanced level. Topics vary. Offered only in WFU abroad programs. May be repeated for credit when topic changes. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 367. Cuban Literature. (3 h)**

Study of Cuban literature from the 18th century to the present: romanticism, modernism, naturalism, the avant-garde movement, and the post-Revolutionary period. Offered in Havana. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 368. Afro Cuban Cultural Expression. (3 h)**

Comprehensive study of Cuban culture with a concentration on the artistic manifestations of Afro-Cuban religions. Students study literature, art, film, music, and popular culture to analyze how Afro-Cuban culture constitutes national culture. Offered in Havana. Also listed as LAS 220C. P-any course in SPA 310-SPA 319 sequence; or POI. (CD)

**SPA 369. Special Topics in Literary and Cultural Studies. (1.5, 3 h)**

Selected special topics in Hispanic Spanish-American literature and culture. May be repeated for credit when topic changes. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 370. History of the Spanish Language. (3 h)**

The development of Spanish from an early Romance dialect to a world language. Study of changes in the language's sounds, grammar, and vocabulary system, with a special focus on the effects of a cultural history and relationships with other languages. P-SPA 309 or 309L and (recommended) LIN 150/ANT 150, or SPA 320.

**SPA 371. Contrastive Spanish/English Grammar and Stylistics. (3 h)**

Advanced study of structure and style in a variety of Spanish texts, with an in-depth approach to idiomatic expressions and some back/cross translation exercises. P-SPA 309 or 309L and (recommended) LIN 150/ANT 150, or SPA 320.

**SPA 372. Acquisition of Spanish. (3 h)**

Comparative study of first language acquisition, adult second language acquisition, and heritage speaker bilingualism. Emphasis on stages of acquisition, influencing factors, and typical outcomes. P-SPA 309 or 309L; or POI.

**SPA 373. Language and Society. (3 h)**

An introduction to the study and methodologies of Spanish sociolinguistics. Emphasis on language and its interaction with socio-economic status, gender, age, ideology, governmental policy, and identity in Spanish-speaking communities. P-SPA 309 or 309L.

**SPA 379. Special Topics in Hispanic Linguistics. (3 h)**

Investigation of key areas in Spanish languages research, such as dialectology, history, language acquisition, and usage. May be repeated for credit. P-SPA 309 or 309L and (recommended) LIN 150/ANT 150, or SPA 320.

**SPA 380. Spanish for the Professions. (3 h)**

Spanish usage of a selected professional area. Emphasizes communication in typical situations and interactions, specialized vocabulary, cultural differences, and related technical readings in the subject matter. Topics offered from the following list: a. Health Occupations; b. Social Work; c. Law and Law Enforcement; d. Other (on demand). P-SPA 309 or 309L; and any course in SPA 310-SPA 329 sequence; and POI.

**SPA 381. Spanish Translation. (3 h)**

Introduces translation strategies through practice, with emphasis on Spanish into English. Focuses on translating in domains such as social science, computing, economics, the entertainment industry, banking, and journalism. P-SPA 309 or 309L; and any course in SPA 310-329 sequence; and SPA 371; or POI.

**SPA 382. Spanish/English Interpreting. (3 h)**

Introduces strategies of interpreting from Spanish into English, primarily. Intensive laboratory practice course to develop basic skills inconsecutive/escort/simultaneous interpreting. Some voice-over talent training is also included. P - SPA 309 or 309L; and any course in SPA 310-SPA 329 sequence; and senior standing or POI.

**SPA 383. Medical and Scientific Translation. (3 h)**

Introduces strategies for translation of documentation relevant to healthcare setting and scientific domains through applied projects. Study of textual conventions and creation of domain-specific resources to support translation process. P - SPA 309 or 309L; or POI.

**SPA 384. Internships for STL & SI. (1.5-3 h)**

Under faculty supervision, a student undertakes a translation/interpreting project at a translation bureau or translation department of a company/public organization. A community service-oriented internship is preferred for interpreting. Does not count toward major of minor. P-SPA 381 or 382.

**SPA 385. Special Topics in Translation. (3 h)**

Selected topics in Translation Studies ranging from translation theories and descriptive studies to applied translation and related areas such as, terminology, documentation and language industries, among other relevant fields. May be repeated if course content differs. P-SPA 309 or 309L; and any course in SPA 310-SPA 329, or SPA 371 or POI.

**SPA 386. Special Topics in Interpreting. (3 h)**

Selected topics in Interpreting Studies including different interpreting settings, specialized interpreting, terminology for interpreting. May be repeated if content differs. P-SPA 309 or 309L; and any course SPA 310-SPA 329 sequence, or SPA 371 or POI.

**SPA 387. Cultural Industries and Institutions in Spain and Spanish America. (3 h)**

Study of key cultural traditions and theories of art and cultural economics, focusing on international cooperation, business and law, and on the construction of intercultural and professional identities. P-SPA 309 or 309L; and any course in SPA 310-SPA 329 sequence, or SPA 371 or POI.

**SPA 388. Global Negotiation and Conflict-Management Skills in a Spanish-Speaking Setting. (3 h)**

Examines through case studies topics such as “power with” vs. “power over” in international negotiation strategies; negotiation power, influence, and trust in a Spanish and Spanish-American context; and cultural, situational, and social factors of virtual negotiations. P— SPA 309 or 309L; and any course in SPA 310-SPA 329 sequence, or SPA 371 or POI.

**SPA 390. International Business: Spain and Latin America. (3 h)**

Study of the most characteristic features of the economic and financial situation and perspectives in Spain and Latin America. Focuses on communicating successfully in the world of Hispanic business and on acquiring an international view of that world and its cultural differences. Counts as elective for the Spanish major. P-SPA 309 or 309L; or POI.

**SPA 391. Internship in Spanish for Business and the Professions. (1.5-3 h)**

Under faculty supervision, a student completes an internship in a bilingual business or professional setting. Does not count toward major or minor in Spanish. Pass/Fail only. P—SPA 309 or 309L; or POI.

**SPA 397. Spanish Independent Study. (1-3 h)**

P-POI.

**SPA 398. Honors Directed Reading and Research. (1.5 h)**

Required for honors in Spanish. P-POI.

**SPA 399. Honors Directed Writing. (3 h)**

Required for honors in Spanish. P-POI.

## Faculty

**Chair** Kathryn Mayers

**Professors** Jane W. Albrecht, Mary L. Friedman, Ola Furmanek, Soledad Miguel-Prendes, Roberta Morosini

**Associate Professors** Irma Alarcón, Diego Burgos, Margaret Ewalt, Jerid Francom, Luis González, Anne Hardcastle, Linda S. Howe, Tiffany Judy, Rémi Lanzoni, Kathryn Mayers, María Teresa Sanhueza, José Luis Venegas Caro

**Assistant Professors** Andrea Echeverría, Sara Fernández Cuenca, César Gutiérrez, Samanta Ordóñez, Nicholas Wolters

**Associate Teaching Professor** Silvia Tiboni-Craft

**Associate Professors of the Practice** Rebekah Morris, Encarna Turner

**Assistant Teaching Professors** Alison Atkins, Bruce Cole, Claudia Francom, Claudia Ospina, Carmen Pérez-Muñoz, Jessica Shade Venegas, John Welsh

**Assistant Professor of the Practice** Liliana Mendoza-Batista

**Visiting Assistant Professors** Lauren Miller

**Salamanca, Spain: On-Site Director** Javier G. Garrido

**Cultural Assistant** Fernando Díaz

## Italian Language and Culture, Minor Requirements

Requires 15 hours in Italian courses to include:

Code	Title	Hours
ITA 212	Exploring the Italian World	3
or ITA 213	Introduction to Italian Literature	
ITA 319	Grammar and Composition	3

Two additional 300-level ITA courses

One elective above ITA 213

\* Students must achieve at least a C grade in ITA 319.

Students must achieve a GPA of 2.0 in the minor.

## Italian Studies Requirements

Foreign Area Study

**Coordinator, Professor of Romance Languages** Roberta Morosini

A semester in Venice or another approved course of study in Italy (or summer program at Middlebury, Vermont) is required.

Code	Title	Hours
ITA 212	Exploring the Italian World	3
or ITA 213	Introduction to Italian Literature	
ITA 319	Grammar and Composition	3
Select three courses from the following groups: *		9
I. Literature		
II. Fine Arts		
III. History and the Social Sciences		

\* At least one each from Groups II and III.

Additional elective courses may have been approved since publication of this bulletin. The program coordinator maintains a complete list of all approved elective courses. For course descriptions, see the relevant department's listings in this publication.

### I. Literature

Code	Title	Hours
CLA 264	Greek & Roman Comedy	3
COM 370	Special Topics (when topic is Tree Italian Masters)	3
HMN 213	Studies in European Literature (appropriate topics and approval)	3
IAS 325	Italian Neorealism in Films and Novels	3
ITA 326	Comedy in Italian Cinema	3
ITA 327	Modern Italian Cinema	3

### II. Fine Arts

Code	Title	Hours
ART 245	Art and Architecture of the Roman World	3
ART 268	16th Century Art in Italy: Magnificence and Reform	3
ART 269	Venetian Renaissance Art (offered in Venice)	3
ART 396	Art History Seminar (when topic is Three Italian Masters)	4
MUS 181	Music History I	3
MUS 182	Music History II	3
MUS 220	Seminar in Music History	3

### III. History and the Social Sciences

Code	Title	Hours
HST 225	History of Venice (offered in Venice)	3
HST 229	Venetian Society & Culture (offered in Venice)	3
HST 398	Individual Study (if directed toward Italy)	1-3

Students may also take appropriate courses in other disciplines in the Venice program and appropriate individual study topics. To graduate with a Certificate in Italian Studies, students must contact the Registrar's Office during the spring semester of the senior year to request that a transcript copy be sent to the Department of Romance Languages for approval.

### Spanish for Business, Concentration Requirements

Teaches general concepts and skills necessary to perform effectively in professional international business settings. Requirements include:

Code	Title	Hours
Select two of the following:		6
SPA 325	Spanish for Business I	
SPA 326	International Business: Spain/Latin America	
SPA 327	Spanish for Business II	
Select one course from the following Options:		3
Option 1:		
SPA 315	The Making of Spain: Interdisciplinary Approaches to the Cultures of Spain	
SPA 316	Paradise in Perspective: An Interdisciplinary Approach to the Wider Caribbean	
SPA 317	Distant Neighbors: Interdisciplinary Approaches to Mexico and Central America	
SPA 318	The Andes to Patagonia: Interdisciplinary Approaches to South American Culture	
SPA 319	Literary and Cultural Studies of Spanish America	
Option 2:		
SPA 381	Spanish Translation	

### Spanish for Health Professions, Concentration Requirements

Teaches medical and cultural concepts and prepares students to use Spanish in a healthcare setting. Requirements are the following:

Code	Title	Hours
SPA 328	Medical Spanish	3
SPA 382	Spanish/English Interpreting	3
SPA 383	Medical and Scientific Translation	3
or SPA 371	Contrastive Spanish/English Grammar and Stylistics	

### Spanish Interpreting, Concentration Requirements

SI teaches strategies for different types of Spanish/English interpreting. Includes an internship. Requirements include:

Code	Title	Hours
SPA 382	Spanish/English Interpreting	3
SPA 384	Internships for STL & SI	1.5-3
Select one course in SPA 330- SPA 369		
Select one of the following:		3
SPA 322	Spanish pronunciation and Dialect Variation	
SPA 328	Medical Spanish	
SPA 381	Spanish Translation	
SPA 383	Medical and Scientific Translation	
SPA 387	Cultural Industries and Institutions in Spain and Spanish America	
SPA 388	Global Negotiation and Conflict-Management Skills in a Spanish-Speaking Setting	
SPA 371	Contrastive Spanish/English Grammar and Stylistics	
LIN 383	Language Engineering: Localization and Terminology	

Students must achieve a grade of minimum B- in each course in this concentration track.

### Spanish Studies Requirements

Foreign Area Study

Students are required to participate in the Spanish program at Salamanca for one or two semesters. They also are required to take:

Code	Title	Hours
HST 216	General History of Spain (taught in Salamanca)	3
POL 202	Political Structures of Present-day Spain (taught in Salamanca)	3
ART 230	Spanish Art and Architecture (taught in Salamanca)	3
SPA 315	The Making of Spain: Interdisciplinary Approaches to the Cultures of Spain (taught in Salamanca)	3

Select nine additional hours from the advanced courses in Spanish language and the literature and culture of Spain offered by the Department of Spanish and Italian, or from those offered at the University of Salamanca

# Spanish Translation/Localization, Concentration

## Requirements

STL teaches strategies of Spanish into English translation and introduces students to various software/website translation applications. Includes an internship in a professional translation environment. Requirements include:

Code	Title	Hours
SPA 371	Contrastive Spanish/English Grammar and Stylistics	3
SPA 381	Spanish Translation	3
LIN 383	Language Engineering: Localization and Terminology	3
SPA 384	Internships for STL & SI	1.5-3
Select one of the following:		3
SPA 382	Spanish/English Interpreting	
SPA 387	Cultural Industries and Institutions in Spain and Spanish America	
SPA 388	Global Negotiation and Conflict-Management Skills in a Spanish-Speaking Setting	

Students must achieve a grade of minimum B- in each course in the concentration track.

## Spanish, B.A.

### Requirements

Requires a minimum of 28 hours in Spanish courses numbered 280 and above. It must include:

Code	Title	Hours
<b>Required Major Courses</b>		
SPA 280	The Spanish-Speaking World: Portals and Perspectives	3
SPA 309	Grammar and Composition *	4
or SPA 309L	Grammar and Composition for Heritage Speakers of Spanish	
Select one of the following Genre Courses:		3
SPA 310	Anecdotes, Bestsellers, Cuentos. The ABCs of Storytelling in the Spanish-Speaking World	
SPA 311	Bard, Ballad, Bolero. Poetry, and Song in the Spanish-Speaking World	
SPA 312	Page, Stage, and Performance. Theater and Drama of the Spanish-Speaking World	
SPA 313	Lights, Camera, ¡Acción!. Cinema and Culture in the Spanish-Speaking World	
Select one of the following Regions Courses:		3
SPA 315	The Making of Spain: Interdisciplinary Approaches to the Cultures of Spain	
SPA 316	Paradise in Perspective: An Interdisciplinary Approach to the Wider Caribbean	

SPA 317	Distant Neighbors: Interdisciplinary Approaches to Mexico and Central America	
SPA 318	The Andes to Patagonia: Interdisciplinary Approaches to South American Culture	
SPA 319	Literary and Cultural Studies of Spanish America	
Select six hours from SPA 330 - SPA 395		6
Select nine hours of of Electives credits from Spanish classes numbered above 280 *		9

\* *Students must achieve at least a C grade in SPA 309 or SPA 309L. SPA 309 or SPA 309L must be taken on the Reynolda or Salamanca campus.*

\*\* *No more than 10 hours may be counted from courses numbered SPA 280-SPA 309.*

Students must achieve a GPA of 2.0 in the major.

## Honors

The honors designation in Spanish is a recognition of outstanding scholarship in the field, as evidenced by academic achievement, critical thinking, and intellectual initiative. Highly qualified majors selected by the faculty are invited to participate in the honors program, which candidates undertake in addition to the requirements for the major.

The honors program requires completion of:

1. SPA 398 (Directed Reading, 1.5h)
2. SPA 399 (Directed Research, 3h)
3. Directed Reading, normally taken during the fall semester of the student's final year, includes reading and discussion of a number of texts on the selected topic, and a written exam covering these texts. At the end of fall semester, the student submits an annotated bibliography and an abstract of the honors thesis.
4. Directed Research, taken during the student's final semester, consists of writing the thesis following a schedule established by the director and the student.

At the end of this course, the honors student defends the thesis orally before appropriate faculty who collectively may confer honors.

## Spanish, Minor

### Requirements

Requires a minimum of 19 hours in Spanish courses numbered 280 and above. It must include:

Code	Title	Hours
SPA 280	The Spanish-Speaking World: Portals and Perspectives	3
SPA 309	Grammar and Composition *	4
or SPA 309L	Grammar and Composition for Heritage Speakers of Spanish	
Select one of the following Genre courses:		3
SPA 310	Anecdotes, Bestsellers, Cuentos. The ABCs of Storytelling in the Spanish-Speaking World	
SPA 311	Bard, Ballad, Bolero. Poetry, and Song in the Spanish-Speaking World	



SPA 312	Page, Stage, and Performance. Theater and Drama of the Spanish-Speaking World	
SPA 313	Lights, Camera, ¡Acción!. Cinema and Culture in the Spanish-Speaking World	
Select one of the following Regions course:		3
SPA 315	The Making of Spain: Interdisciplinary Approaches to the Cultures of Spain	
SPA 316	Paradise in Perspective: An Interdisciplinary Approach to the Wider Caribbean	
SPA 317	Distant Neighbors: Interdisciplinary Approaches to Mexico and Central America	
SPA 318	The Andes to Patagonia: Interdisciplinary Approaches to South American Culture	
SPA 319	Literary and Cultural Studies of Spanish America	
Select three credit hours from SPA 330 - SPA 395		3
Select three additional hours of elective credit from Spanish classes numbered above 280**		3

\* *Students must achieve at least a C grade in SPA 309 or SPA 309L. SPA 309 or SPA 309L must be taken on the Reynolda or Salamanca campus.*

\*\* *No more than 10 hours may be counted from courses numbered SPA 280-SPA 309.*

Students must achieve a GPA of 2.0 in the minor.

## Casa Artom Program

Students have the opportunity to study and live at Casa Artom situated along the Grand Canal in Venice. Each semester or summer session, a resident professor leads a group of up to 20 students and offers two courses in his or her respective discipline. Resident professors are chosen from a wide variety of academic departments. In addition, Venetian professors offer courses in the study of Italian language or literature, Italian art and architecture, history, and economics to help students integrate into the local culture. Group excursions throughout Venice and in surrounding cities enhance the learning experience as well as numerous integrative experiences within the city itself. Prior study of Italian language is not required, but may be determined by the resident professor. Further information may be obtained from the program director, professor Peter Kairoff, in the Department of Music. Applications available (<http://studyabroad.wfu.edu/program/?pid=373&program=wfu-venice-casa-artom-b/>) at the Office for Global Programs and Studies.

## Cuba Program

The Cuba program is for students interested in studying arts and social entrepreneurship in the beautiful city of Havana. Students go as a group in the first summer term and take one or two of the courses listed below. No particular major is required for eligibility. Students must have completed SPA 280 or received POI. The program includes day trips to sites of cultural and historical interest in and outside the capital. Students are housed in hotels and private homestays.

Code	Title	Hours
SPA 198	Service Learning in Spanish Language	1.5
SPA 329	Intermediate Topics in Literary and Cultural Studies	3
SPA 369	Special Topics in Literary and Cultural Studies	1.5,3

Program Director: Linda Howe ([howels@wfu.edu](mailto:howels@wfu.edu))

Applications available (<http://studyabroad.wfu.edu/program/?pid=2126&program=wfu-cuba-cuban-culture-and-society-summer-b/>) at the Office for Global Programs and Studies.

## Intensive Summer Language Institute (ISLI)

ISLI (Intensive Summer Language Institute) in Spanish is an accelerated, on-campus language program. Students take SPA 153 and SPA 213 concurrently during the first summer term. Class size is reduced for individualized instruction. Requirements include 4 hours per day of class, 1-hour daily Spanish immersion activities with instructors in the target language, and co-curricular meals and activities two evenings per week.

Program Director: Liliانا Mednoza-Batista ([mendozil@wfu.edu](mailto:mendozil@wfu.edu))

Find more information here (<http://spanishitalian.wfu.edu/isli/>).

## Salamanca Internship Program

The Salamanca Internship Program is for students interested in improving their Spanish by working in a professional setting abroad. Student go during the first or second summer term and receive academic credit for an internship in one of a wide range of fields, including medicine, business, education, translation, interpreting, sports, political science, and sociology. No particular major is required for eligibility. Students must have completed one course beyond SPA 212 or SPA 213.

Students in the internship program typically take a 3h internship along with one other course listed below. The program includes several day trips to cities of cultural and historical interest. Students typically live with host families.

Courses in the Spanish major/minor available to summer internship students include:

Code	Title	Hours
SPA 199	Internship in Spanish Language	1.5,3
SPA 303I	Language Study in the Context of an Internship	1.5,3
SPA 315	The Making of Spain: Interdisciplinary Approaches to the Cultures of Spain	3
SPA 319	Literary and Cultural Studies of Spanish America	3
SPA 369	Special Topics in Literary and Cultural Studies	1.5,3
SPA 391	Internship in Spanish for Business and the Professions	1.5-3

Program Director: Kathryn Mayers ([mayerskm@wfu.edu](mailto:mayerskm@wfu.edu))

Applications available (<http://studyabroad.wfu.edu/program/?pid=745&program=wfu-salamanca-internship-program-summer-i-b/>) at the Center for Global Programs and Studies

## Salamanca Immersion Program

The Salamanca Immersion Program is for students interested in studying Spanish language and culture at one of Europe's oldest and most prestigious universities. Students go as a group in the fall and/or spring semesters. No particular major is required for eligibility. Students are normally of sophomore, junior, or senior standing and must have completed one course beyond SPA 212 or SPA 213.

Students typically take 4-6 courses during the semester. SPA 301 is required. Students may choose to do an internship (SPA 199). SPA 301 and SPA 199 are Pass/Fail and do not count towards a Spanish major or minor. The program includes 2-3 weeks of travel to cities of cultural and historical interest. Students typically live with host families.

Courses in the Spanish major/minor that are offered every semester include:

Code	Title	Hours
SPA 309	Grammar and Composition	4
SPA 313	Lights, Camera, ¡Acción!. Cinema and Culture in the Spanish-Speaking World	3
SPA 315	The Making of Spain: Interdisciplinary Approaches to the Cultures of Spain	3
SPA 319	Literary and Cultural Studies of Spanish America	3
SPA 326	International Business: Spain/Latin America	3
SPA 328	Medical Spanish	3
SPA 332	The Golden Age of Spain	3
SPA 334	Voices of Modern Spain	3
ART 230	Spanish Art and Architecture	3
HST 216	General History of Spain	3
POL 202	Political Structures of Present-day Spain	3

A number of additional courses (<http://studyabroad.wfu.edu/program/?pid=372&program=wfu-salamanca-b/>) in other divisions are available contingent on minimum enrollment. All courses are offered in Spanish.

Program director: Kathryn Mayers ([mayerskm@wfu.edu](mailto:mayerskm@wfu.edu))

Applications available (<http://studyabroad.wfu.edu/program/?pid=372&program=wfu-salamanca-b/>) at the Center for Global Programs and Studies.

## Sorrento Program

The Sorrento Program is for students interested in studying Italian in a picturesque coastal town in the south of Italy. Students go as a group in the first summer term and take an Italian language course (ITA 112, ITA 154, or ITA 212) at the Sant' Anna Institute and a course on Italian Literature in English (D II) taught by a WFU professor. No prior study of Italian is required for eligibility. Students typically live with host families.

Applications available (<http://studyabroad.wfu.edu/program/?pid=3067&program=wfu-sorrento-italian-language-study-summer-b/>) at the Office for Global Programs and Studies.

## Southern Cone (SoCo) Program

The Southern Cone Program is for students interested in studying Spanish and a range of topics related to Latin America in two different capital cities of South America. The program begins with a three-week culture course in Buenos Aires, Argentina, followed by a full semester in Santiago, Chile. No particular major is required for eligibility. Students are normally of sophomore or junior standing.

Students typically take 5-6 courses during the semester. HMN 186 and one course taught by the Resident Professor are required. Students may choose to do an internship. The program includes 2-3 weeks of travel to sites of cultural and historical interest. Students typically live with host families.

Courses in the Spanish language sequence that are offered as needed include:

Code	Title	Hours
SPA 111	Elementary Spanish I	3
SPA 112	Elementary Spanish II	3
SPA 154	Accelerated Intermediate Spanish	3
SPA 213	Encounters: Hispanic Literature and Culture	4

Courses in the Spanish major/minor that are offered as needed include:

Code	Title	Hours
SPA 303	Spanish Conversation	3
SPA 319	Literary and Cultural Studies of Spanish America	3

Courses in the Spanish major/minor that are offered on a rotating basis include:

Code	Title	Hours
COM 270	Special Seminar (Cine Chileno: Una Visión de la Historia (1940-1979))	3
POL 242	Topics in Comparative Politics	3

Additional courses (<http://studyabroad.wfu.edu/program/?pid=1584&program=wfu-southern-cone-chile-argentina-b/>) in English and Spanish are available on a rotating basis.

Program Director: Peter Siavelis ([siavelpm@wfu.edu](mailto:siavelpm@wfu.edu))

Applications available (<http://studyabroad.wfu.edu/program/?pid=1584&program=wfu-southern-cone-chile-argentina-b/>) at the Center for Global Programs and Studies

## Salamanca 212 Program

The Salamanca 212 Program is for students interested in finishing the Spanish language requirement in an immersion setting. Students travel to the beautiful university of city of Salamanca in the first summer term and take SPA 212. No particular major is required for eligibility. Students may be of any class standing and must have completed SPA 153 or SPA 154. The program includes day trips to cities of cultural and historical interest. Students typically live with host families.

Program Director: Kathryn Mayers (mayerskm@wfu.edu)

Electronic application available at the Center for Global Programs and Studies (<http://studyabroad.wfu.edu/program/?pid=4487&program=wfu-salamanca-spanish-language-literature-and-culture-spa-212-summer-i-b/>).

## Theatre and Dance (THE/DCE)

The Department of Theatre and Dance offers students an exceptional education in theatre and dance, and plays an integral role in the Wake Forest community. We are a creative and collegial department that values close working relationships between students and faculty, that sees the arts as integral to a liberal arts education, and that prizes intellectual discipline as well as free thinking and expression. We aspire to create exceptional artist/scholars, exploring through classes and productions intersections of theatre and dance with other realms of study, and giving expression to humanity's foremost social and intellectual concerns.

We promote inclusivity, intellectual curiosity, innovation, dialogue, and problem-solving skills. And we believe that artistic commitment, personal development, responsibility to one's community, and academic rigor can all coexist.

Each season, the department mounts four subscription series productions, two dance concerts, and numerous student-directed and designed pieces. Students learn through work on productions—whether in the rehearsal hall or shop—as well as through classwork in acting and directing, dance technique, choreography, design, playwriting, voice and movement, history, dramatic literature, performance art, theatre education, and technical theatre.

Students with both academic and artistic ability will find a comfortable home at Wake Forest University. Our students work closely with a vigorous faculty on a wide variety of projects. They enjoy the benefits of a nationally ranked university with small classes, impressive facilities, and an active theatre and dance program, and they grow as both scholars and artists. College is for learning—through books and lectures, certainly, but also through self-exploration and creative expression. We at Wake Forest believe that excellence in both arts and academics is not only possible but also desirable. Myriad student theatre, dance, and performance groups on campus contribute to a vital educational environment for the study of performance.

## Contact Information

Department of Theatre and Dance (<http://college.wfu.edu/theatre/>)  
Scales Fine Arts Center 219, Box 7264  
Phone 336-758-5294

## Programs

### Major

- B.A. in Theatre

### Minors

- Minor in Dance
- Minor in Theatre

## Courses

### Dance (DCE)

#### DCE 101. Beginning Tap Dance. (2 h)

Fundamentals of tap dance technique with an emphasis placed on technique, rhythm, vocabulary, and performance qualities. May be taken two times for credit.

#### DCE 120. Beginning Modern Dance Technique. (2 h)

Fundamentals of modern dance technique, with an emphasis placed on movement concepts, vocabulary, technique, alignment, placement, and flexibility. May be taken two times for credit.

#### DCE 122. Special Topics in Dance. (1-3 h)

An intensive study of selected topics in dance. May be repeated.

#### DCE 124. Social Dance. (1.5 h)

Fundamental techniques of social dance, providing basic skills, concepts of movement, style and fundamental step patterns found in social dance rhythms. Students will learn basic smooth dances, rhythm dances, Latin-American dances and Cuban dances.

#### DCE 125. Folk and Social Dance. (1.5 h)

Fundamentals of folk and social dance, providing the basic skills, concepts of movement, style and fundamental step patterns of folk and social dance. Emphasis is on the development of fundamental dance skills and practice in utilizing dance techniques.

#### DCE 126. Beginning Jazz Dance. (2 h)

Fundamentals of jazz technique with an emphasis on alignment, isolations, flexibility, basic turns, jumps, and combinations. May be taken two times for credit.

#### DCE 127. Beginning Classical Ballet Techniques. (2 h)

Fundamentals of classical ballet technique with an emphasis on alignment, placement, flexibility, barre work, adagio and petite allegro. May be taken two times for credit and two times Pass/Fail.

#### DCE 128. Dance Performance. (1 h)

Practical experience in the areas of rehearsal, production, and performance, as a performer in the Fall or Spring Dance Concert. May be taken up to four times for credit.

#### DCE 129. Choreography. (1 h)

Practical experience in the areas of rehearsal, choreography production and performance as a choreographer in the Spring Dance Concert. May be taken only once.

#### DCE 130. Movement for All. (1 h)

A beginning level dance class for male students that surveys jazz, modern and/or ballet techniques. Emphasis on flexibility, coordination, and efficiency of movement. Eight week course.

#### DCE 131. African Dance. (1.5 h)

Designed to develop basic West African dance technique, build students' musicality and performance skills and create an awareness of African culture. May be taken 2 times for credit.

#### DCE 133. Hip Hop Dance. (1.5 h)

Fundamentals of Hip Hop dance technique. May be taken 2 times for credit.

#### DCE 150. Design and Production for Dance. (2 h)

Introduction to the fundamentals of lighting, sound editing, dance floor installation, costumes and stage management for dance performance. Credit not allowed for both DCE 150 and THE 150. P-POI.

**DCE 200. Senior Dance Project. (2 h)**

An investigation of selected semi-professional problems involving the creative process of choreography, study of notation, research idea, or production.

**DCE 201. Intermediate Tap Dance. (2 h)**

A progressive development of technique and vocabulary from DCE 101, with an emphasis on exploring rhythm, dynamics and performance qualities. May be taken four times for credit. P-DCE 101 or POI.

**DCE 202. History of Dance. (3 h)**

A survey of the development of dance as a performing art from the Renaissance to the present with an emphasis on scope, style and function. (D)

**DCE 203. 20th-Century Modern Dance History. (3 h)**

Exploration of the history of modern dance from Isadora Duncan to contemporary modern dance trends in the U.S. and abroad. (D)

**DCE 205. Improvisation. (2 h)**

An investigation of the art and technique of improvised dancing. The course borrows from visual art, poetry, literature, theatre, and music as catalysts for original movement generation. P-DCE 120 or 221.

**DCE 221. Intermediate Modern Dance Technique. (2 h)**

A progressive development of movement concepts and vocabulary from DCE 120, with an emphasis on exploring both the classical and contemporary techniques of modern dance. May be taken four times for credit. P-DCE 120 or POI.

**DCE 222. Advanced Modern Dance Technique. (2 h)**

A progressive development of the concepts of DCE 221 with an emphasis on qualitative performance, virtuosity and versatility in a variety of technical forms within the modern dance discipline. May be taken four times for credit. P-DCE 221 or POI.

**DCE 223. Dance Composition. (3 h)**

Fundamental study of improvisation, composition, and choreography. P-DCE 221, 226, 229, or POI.

**DCE 224. Advanced Social Dance. (1.5 h)**

Progressive development of technique in rhythm, dance hold, footwork and patterns of ballroom and Latin dance. Emphasis on performance and competitive dance styles. May be taken two times for credit. P-DCE 124 or POI.

**DCE 226. Intermediate Jazz Dance. (2 h)**

This course pursues the mastery of basic jazz technique along with more complex center floor combinations. Emphasis is placed on performance qualities and musicality. May be taken four times for credit. P-DCE 126 or POI.

**DCE 227. Advanced Jazz Dance. (2 h)**

Pursues the mastery of jazz technique along with more complex center floor combinations. Emphasis is placed on performance qualities, musicality, technique, virtuosity, and creativity. May be taken four times for credit. P-DCE 226 or POI.

**DCE 229. Intermediate Classical Ballet. (2 h)**

Pursues the mastery of basic ballet technique along with more complex barre and center combinations, performance qualities, and musicality. May be taken four times for credit. P-DCE 127 or POI.

**DCE 231. Advanced Classical Ballet. (2 h)**

Continues the mastery of basic ballet technique along with more complex barre and center combinations, performance qualities, musicality and pointe work. May be taken four times for credit. P-DCE 229 or POI.

**DCE 233. Advanced Studio Classical Ballet. (2 h)**

Professional level pace of ballet technique. Complex barre and center combinations as well as more advanced pointe work in class. May be taken 4 times for credit. POI.

**DCE 235. Ballet Repertory. (2 h)**

An intermediate and advanced level technique class focusing on the development and performance of classical and contemporary ballet repertoires. May be repeated 4 times for credit. P-DCE 229 or POI.

**DCE 236. Multi-Ethnic Dance. (3 h)**

Exploration of the cultural importance of dance in major ethnic groups in American society. Also listed as AES 236. (CD)

**DCE 241. Advanced Tap Dance. (2 h)**

A progressive development of the concepts of DCE 201 with an emphasis on qualitative performance, virtuosity and versatility in a variety of technical forms within the tap dance discipline. May be taken four times for credit. P-DCE 201 or POI.

**DCE 285. Internship in Dance. (1-3 h)**

Internship, approved by the department, to be carried out under the supervision of a departmental faculty member, designed to meet the proposing student's needs and interests related to their study of dance. Requirements may include an evaluative paper and public presentation. Normally one course in an appropriate sub-filed is taken prior to the internship. P-POI.

**DCE 294. Individual Study. (1-3 h)**

Research and readings in an area of interest to be approved and supervised by a faculty adviser. May be taken for a total of not more than 3 hours. P-POI.

## Theatre (THE)

**THE 100. Participation. (0.5 h)**

Attendance/participation in Mainstage and Studio performances and other events as established by the department. Specific attendance/participation requirements will be established at the beginning of each semester. Assignments for technical production are made through consultation with the technical and design faculty. May be repeated for credit. P-POI.

**THE 110. Introduction to Western Theatre. (3 h)**

Survey of the theory and practice of the major disciplines of Western theatre art: acting, directing, playwriting, and design. Optional lab-THE 110L. (D)

**THE 110L. Intro to Theatre-Lab. (1 h)**

Participation in production team on Mainstage as assigned. P or C-THE 110 or 111 and POI.

**THE 111. Introduction to Theatre. (3 h)**

Survey of the theory and practice of the major disciplines of theatre art: acting, directing, playwriting and design. Includes theatre practices from non-Western traditions. Optional lab – THE 110L. (D)

**THE 125. Basic Voice and Movement for non-Majors. (3 h)**

Introduction to basic voice and movement technique. May include topics such as breathing, healthy vocalization, articulation, vocal expressiveness and energy, alignment, tension release, kinesthetic awareness, basic anatomy. Does not count toward Major.

**THE 126. Stage Makeup. (1.5 h)**

A study of the design and application of theatrical makeup in relationship to historical period and character development.

**THE 130. Voice and Movement. (3 h)**

Building awareness of the actor's instrument through the development of basic vocal and physical skills, emphasizing relaxation, clarity, expressiveness, and commitment, along with spontaneity, centering, and basic technical skills. Counts toward Major. P - THE 140.

**THE 140. Acting I. (3 h)**

Fundamental acting theory and techniques including exercises, monologues and scene work.

**THE 144. Mime. (2 h)**

An introductory study of basic mime forms. The student will gain skills and understanding of this theatrical form through practical exercises, readings, rehearsals, and performances.

**THE 150. Introduction to Design and Production. (4 h)**

Introduction to the fundamentals of theatrical design and technology including script analysis, design development, and presentation methods. Through the lab, the student develops basic skills in theater technology. Credit not allowed for both DCE 150 and THE 150. Lab-3 hours. (D)

**THE 155. Stagecraft. (3 h)**

This introductory course focuses on contemporary materials, construction methods, and rigging practices employed in the planning, fabrication and installation of stage scenery. Emphasis on using current technologies for problem solving.

**THE 181. Acting Workshop. (1 h)**

Scene work with student directors. Pass/Fail only.

**THE 188. The Contemporary English Theatre. (1 h)**

Explores the English theatre through theatre attendance in London and other English theatre centers. Readings, lectures. Participants submit reviews of the plays and complete a journal of informal reactions to the plays, the sites and the variety of cultural differences observed. Two weeks. Offered in London before spring term. Pass/fail only. P-POI.

**THE 230. Advanced Dynamics. (3 h)**

Focus on opening and strengthening the actor's instrument by building on work done in THE 130. P-THE 130.

**THE 240. Class Act. (3 h)**

Interdisciplinary theatre class that moves dramatic literature from page to stage as students prepare and present scenes used in courses throughout the University. P-THE 140 or POI. (D)

**THE 241. Acting for the Camera. (3 h)**

Introduces the theory and practice of acting for the camera. Focused on film/video/TV acting, may also include commercials and other formats. Basic knowledge of realistic acting required. P - THE 140.

**THE 242. Performance Art. (3 h)**

This combined seminar and studio course examines the history, range and context of performance art. Through discussion and exploration, students learn techniques and approaches for exploring new relationships to body, voice, space and image, and to create original performance art works.

**THE 245. Acting II. (3 h)**

Advanced study and practice of the skills introduced in Acting I. P-THE 130 and 140. (D)

**THE 246. Period and Style. (3 h)**

Studies social customs, movement, dances, and theatrical styles relating to the performance of drama in historical settings as well as in period plays. Includes performances in class. P-THE 130 or 230 and THE 140. (D)

**THE 250. Theatrical Scene Design. (3 h)**

A study of the fundamental principles and techniques of stage design. Drafting, model building, perspective rendering, historical research, and scene painting will be emphasized. P-THE 150.

**THE 251. Costume Design. (3 h)**

Studies the fundamental principles and techniques of costume and makeup design with an emphasis on historical research in the context of the text. Explores the basics of costume rendering, materials, and costume construction. P-THE 150 or POI.

**THE 252. Lighting. (3 h)**

An exploration of the lighting designer's process from script to production. A variety of staging situations will be studied, including proscenium, thrust and arena production. P-THE 150.

**THE 253. Sound and Projections for Theatre. (3 h)**

Developing and executing sound design and projections designs for theatrical production from concept to integration into performance. Covers recording, content creation, digital editing, mixing, and playback. P - THE 150 or POI.

**THE 254. Scenic Art for Theatre. (3 h)**

Hands-on introduction to the tools and techniques employed by scenic artists for contemporary stage and film. Includes an introduction to sculpting as well as a variety of projects and exercises in decorative and figurative painting. P-THE 110 or 111 and 150, or POI.

**THE 255. History of Costume. (3 h)**

Surveys the development of clothing and fashion with emphasis on historical and cultural influences and their application to costuming art. (D)

**THE 258. Stage Management. (1.5 h)**

Examines the role of the stage manager in theatre and other venues. Consideration of approaches, philosophy, nuts and bolts. Exploration of the responsibilities of the stage manager from auditions through rehearsals, techs, and performances including extended runs and touring and the key relationships therein with director, performer, designer and producer. P-THE 110 or 111 and 150.

**THE 259. Theater Management: Principles and Practices. (3 h)**

This course reviews the development of theater management in the United States, with emphasis on the role of the producer; explores commercial and not-for-profit theater with attention to planning, personnel, and the economics of theater. Includes readings, lectures, and reports. P-THE 110 or 111. (D)

**THE 265. The English Theatre, 1660-1940. (3 h)**

Studies the major developments in the English theater from the Restoration to World War II, including the plays, playwrights, actors, audiences, theater architecture, theater management, costumes and sets. Field trips include visits to theaters, museums, and performances. Also offered in London. (D)

**THE 266. Modern English and Continental Drama and the London Stage. (3 h)**

Studies the works of major playwrights of England and Europe from 1875 to the present. May also include contemporary production of classic plays. Particular emphasis will be placed on plays which are currently being presented in London theatres. Also offered in London. Also listed as ENG 347. (D)

**THE 270. Theatre in Education. (3 h)**

Practical experience for theater and education students to work together with children in the classroom using theatre to teach core curriculum. Emphasizes methods and techniques as well as the development and implementation of creative lesson plans. Weekly public school teaching experience and seminar. Also listed as Education 223.

**THE 274. World Theatre. (3 h)**

An exploration of non-U.S. Theatre, its histories, approaches, and applications. Study may include the theatre of East Asia, the Middle East, Africa, Latin America, and contemporary Europe, as well as non-English plays in translation. (CD, D)

**THE 283. Practicum. (1-1.5 h)**

Projects under faculty supervision. May be repeated for no more than three hours. P-Permission of the department.

**THE 285. Internship in Theatre. (1-3 h)**

Internship, approved by the department, to be carried out under the supervision of a departmental faculty member, designed to meet the proposing student's needs and interests related to their study of theatre. Requirements may include an evaluative paper and public presentation. Normally one course in an appropriate sub-filed is taken prior to the internship. P-POI.

**THE 290. Special Seminar. (1.5-3 h)**

The intensive study of selected topics in theater. May be repeated.

**THE 294. Individual Study. (1-3 h)**

Research and readings in an area of interest to be approved and supervised by a faculty adviser. May be taken for no more than three times for a total of not more than nine hours. P-POI.

**THE 295. Development and Performance. (1-4 h)**

An intensive experiential course designed to research and develop a theater piece resulting in performance. Focus will vary. May be repeated once for credit.

**THE 310. History of Western Theatre I. (3 h)**

Surveys of the development of Western theatre and drama through the Greek, Roman, medieval, and Renaissance theatres. Suitable for non-majors. (D)

**THE 311. History Western Theatre II. (3 h)**

Survey of Western theatre and drama including English Restoration, the eighteenth century, Romanticism, Realism, the revolts against Realism and the post-modern theatre. Suitable for non-majors. (D)

**THE 320. British Drama to 1642. (3 h)**

British drama from its beginning to 1642, exclusive of Shakespeare. Representative cycle plays, moralities, Elizabethan and Jacobean tragedies, comedies, and tragicomedies. Also listed as ENG 320.

**THE 323. Shakespeare. (3 h)**

Thirteen representative plays illustrating Shakespeare's development as a poet and dramatist. Also listed as ENG 323.

**THE 336. Restoration and Eighteenth-Century British Drama. (3 h)**

British drama from 1660 to 1780, including representative plays by Dryden, Etherege, Wycherley, Congreve, Goldsmith, and Sheridan. Also listed as ENG 336.

**THE 341. Directing I. (3 h)**

An introduction to the theory and practice of play directing. P-THE 140. C or P-THE 150.

**THE 342. Directing II. (3 h)**

Advanced study of the theory and practice of play directing. P-THE 140, 150, and 341. C or P-THE 250 or 251 or 252 or POI.

**THE 343. Studio Production. (1.5, 3 h)**

The organization, techniques and problems encountered in the production of a play for the public. May be repeated once. P - THE 150 and POI.

**THE 344. Acting Shakespeare. (3 h)**

A practical study of varying styles in interpreting and acting Shakespeare's plays from the time of the Elizabethans to the present day. P-THE 130 and 140. (D)

**THE 360. Playwriting. (3 h)**

This course will examine the elements of dramatic structure and their representations in a variety of dramatic writings. It will explore the fundamentals of playwriting through a series of writing exercises. Also listed as CRW 384.

**THE 372. Contemporary Drama. (3 h)**

The course will consider varieties of form and substance in plays and performance texts from Godot to the present. Readings will cover such playwrights as Beckett, Pinter, Stoppard, Churchill, Wertebaker, Albee, Shepard, Fornes, Mamet, Wilson, Soyinka, Fugard, and Foreman. Also listed as ENG 394.

**THE 373. Women Playwrights. (3 h)**

Examination of selected plays and/or performance texts by women. Focus varies, for example, looking at works by contemporary American women or early women dramatists such as Hrosvitha, Sor Juana, and Aphra Behn. Also listed as WGS 319. (CD)

**THE 374. Contemporary World Drama. (3 h)**

This course will consider varieties of form and substance in plays and performance texts from outside the mainstream of the Western theatrical tradition. Focus will vary, for example Asian and Asian-American playwrights or drama of the Middle East. (CD)

**THE 375. American Drama. (3 h)**

A historical overview of drama in the United States, covering such playwrights as Boucicault, Mowatt, O'Neill, Glaspell, Wilder, Williams, Miller, Hansberry, Albee, Shepard, Norman, Hwang, Vogel, Mamet, and Wilson. Also listed as ENG 375.

**THE 376. Multicultural American Drama. (3 h)**

Examines the dramatic works of playwrights from various racial and ethnic communities such as Asian American, Native American, African American, and Latino. The course will include consideration of issues, themes, style, and form. Also listed as ENG 393. (CD)

**THE 390. Special Seminar. (1-3 h)**

The intensive study of selected topics in the theater. May be repeated.

**THE 391. Special Seminar. (1-3 h)**

The intensive study of selected topics in the theater. May be repeated.

**THE 392. Special Topics in Dramatic Literature. (1-3 h)**

Intensive study of selected plays and/or performance texts.

**THE 393. Sp Top Dramatic Lit Cult Diver. (3 h)**

Intensive study of selected plays and/or performance texts, focusing on cultural differences - for instance, women playwrights, GLBT playwrights, or class-focused works. (CD)

**THE 395. Senior Seminar. (1 h)**

Preparation for further, post-graduation work and study in theatre. Highly recommended for theatre majors and minors.

**THE 399. Theatre Honors. (3 h)**

Tutorial involving intensive work in the area of special interest for qualified seniors who wish to graduate with departmental honors. P-POD.

## Faculty

**Department Chair** Professor Nina Maria Lucas Rice

**Director of Theatre** Jonathan Christman

**Co-Directors of Dance, Associate Professors of the Practice** Chris Martin, Brantly Shapiro

**Associate Chair and Associate Professor** Rob Eastman-Mullins

**Associate Professor, and Associate Provost for Arts and Interdisciplinary Initiatives** Christina Tsoules Soriano

**Professor and F.M. Kirby Family Faculty Fellow** Mary Wayne-Thomas

**Professors** Sharon Andrews, J.K. Curry, Brook Davis, Cindy Gendrich

**Assistant Professor** Kevin Fraizer

**Teaching Professor** Lynn Book

**Teaching Professor and Wright Family Faculty Fellow** Leah Roy

**Assistant Teaching Professor** Michael Kamtman

**Visiting Lecturer in Dance** Sam Shapiro

**Teacher-Scholar Postdoctoral Fellow** Janice Lancaster, Jeff Sherwood

**Adjunct Lecturers** Tina Yarborough Liggins, Debbie Sayles

**Part-Time Lecturer** Robert Simpson

## Dance, Minor

### Requirements

Requires a minimum of 19 hours and must include:

Code	Title	Hours
Select one of the following modern courses :		2
DCE 120	Beginning Modern Dance Technique	
DCE 221	Intermediate Modern Dance Technique	
DCE 222	Advanced Modern Dance Technique	
DCE 223	Dance Composition	
Select one of the following jazz courses:		2
DCE 126	Beginning Jazz Dance	
DCE 226	Intermediate Jazz Dance	
DCE 227	Advanced Jazz Dance	
Select one of the following ballet courses:		2
DCE 127	Beginning Classical Ballet Techniques	
DCE 229	Intermediate Classical Ballet	
DCE 231	Advanced Classical Ballet	
or DCE 233	Advanced Studio Classical Ballet	
Select one of the following participation courses:		1
DCE 128	Dance Performance	
DCE 129	Choreography	
THE 100	Participation (taken twice for 1h total)	
DCE 200	Senior Dance Project	2
DCE 202	History of Dance	3
or DCE 203	20th-Century Modern Dance History	
DCE 205	Improvisation	2
or DCE 235	Ballet Repertory	
DCE 150	Design and Production for Dance	2
or THE 150	Introduction to Design and Production	

## Theatre, B.A.

### Requirements

Consists of a minimum of 36 hours, including:

Code	Title	Hours
THE 110	Introduction to Western Theatre	3
or THE 111	Introduction to Theatre	
THE 130	Voice and Movement	3
THE 140	Acting I	3
THE 150	Introduction to Design and Production	4
Select one of the following:		3
THE 250	Theatrical Scene Design	
THE 251	Costume Design	
THE 252	Lighting	
THE 253	Sound and Projections for Theatre	
THE 310	History of Western Theatre I	3
THE 311	History Western Theatre II	3
THE 341	Directing I	3
Select a Dramatic Literature course		
Select one of the following Options:		2-2.5
Option 1:		
THE 100	Participation (four semesters)	
Option 2:		
THE 100	Participation (three semesters)	
THE 110L	Intro to Theatre-Lab	
Select the remaining courses from offerings at the 200 level or higher listed in theatre, or select one of the following:		9
DCE 202	History of Dance	
DCE 203	20th-Century Modern Dance History	
DCE 223	Dance Composition	

A minimum GPA of 2.0 in all theatre courses attempted is required for graduation. Majors will participate in senior assessment, including submission of a portfolio. Majors should consult with their advisers about additional regulations. No more than three hours of THE 294 may be counted toward the 36 hours required for the major; up to a maximum of nine hours or three courses of THE 294 may be counted beyond the 36 hours in the major. Those who plan to be theatre majors are urged to begin their studies during their first year.

### Honors

Highly qualified majors (departmental GPA of 3.3, overall GPA of 3.0) are invited by the department to apply for admission to the honors program in theatre. To be graduated with the designation "Honors in Theatre," a student must successfully complete THE 399 with a grade of B or better. Honors projects may consist of:

1. A research paper of exceptional quality
2. A creative project in playwriting, design, directing, acting or dramaturgy
3. Other approved project

The theatre honors project must be presented and defended before a departmental Honors Committee. The department can furnish honors

candidates with complete information on preparation and completion of projects.

## Theatre, Minor

### Requirements

Requires 20 hours:

Code	Title	Hours
THE 110 or THE 111	Introduction to Western Theatre Introduction to Theatre	3
THE 140	Acting I	3
THE 150	Introduction to Design and Production	4
THE 310 or THE 311	History of Western Theatre I History Western Theatre II	3
Select one THE Elective at the 200 level or higher or select one of the following:		3
DCE 202	History of Dance	1-1.5
DCE 203	20th-Century Modern Dance History	
DCE 223	Dance Composition	
Select one of the following Options:		1-1.5
Option 1:		
THE 100	Participation (two semesters)	
Option 2:		
THE 100	Participation	
THE 110L	Intro to Theatre-Lab	
Select a Dramatic Literature course		

Potential minors should contact the chair of the department soon after arrival on the campus.

## Women's, Gender, and Sexuality Studies (WGS)

The department of Women's, Gender, and Sexuality Studies provides an opportunity for research and dialogue on a broad range of topics related to feminist contributions as well as to the fundamental fields of human knowledge and achievement and interdisciplinary studies of feminisms, masculinity, sex, gender and sexuality. A student intending to major or minor in Women's, Gender, and Sexuality Studies should consult the chair of the department, preferably during their first or early in their second year.

### Contact Information

Women's, Gender, and Sexuality Studies Department (<http://college.wfu.edu/wgs/>)  
Tribble Hall A105, P.O. Box 7365  
Phone 336-758-3758

### Programs

#### Major

- B.A. in Women's, Gender, and Sexuality Studies

#### Minor

- Minor in Women's, Gender, and Sexuality Studies

## Courses

### Women's, Gender, and Sexuality Studies (WGS)

**WGS 101. Window on Women's, Gender and Sexual Studies. (1.5 h)**  
An opportunity to experience and reflect analytically in writing on the diverse cultural and intellectual life of Wake Forest, with an emphasis on women's, and gender, and sexuality studies events and topics.

**WGS 121. Feminist Leadership Project. (1.5 h)**  
Explores the principles of feminist leadership to deepen self-awareness about personal leadership skills and gain tools for creating feminist social change. This highly interactive class welcomes students who are new to feminist thought/activism as well as those seeking to deepen their engagement with feminism. Pass/fail only.

**WGS 122. LGBTQ Center Change Agents Leadership Project. (1.5 h)**  
Open to participants in the LGBTQ Center's Change Agent program. Participants will explore principles of identity development (individual and community), queer and feminist theories of leadership and change, understanding gender and sexuality as frameworks for community organizing and social change, and development and implementation of a final change related project. Pass/fail only. P-POI.

**WGS 123. The Feminist Book Society. (1.5 h)**  
A reading course designed to introduce students to classic and contemporary feminist texts. Emphasis on close reading, discussion, and writing. May be repeated for credit if texts differ.

**WGS 125. Prepare. (1.5 h)**  
Provides students with an overview of the social, emotional, and legal issues related to sexual violence, and teaches them to design and implement educational programs on this topic. Pass/fail only.

**WGS 150. Perspectives in Gender and Sexuality. (3 h)**  
Introduces feminism as a lens of analysis; gender, sexuality, and other social categories as social constructs; sexism, heterosexism, and other social systems as systems of oppression; and intersectionality as a lens of analysis. Topics of the course will vary based on the instructor. (D)

**WGS 214. Gender and Sexuality in World History. (3 h)**  
Introduces the global and historical breadth of gender and sexual systems. Foundational and current approaches to cross-cultural historical analysis of masculinity, women's rights, and differences between LGBTQ identities and other models. Also listed as HST 114.

**WGS 221. Introduction to Women's, Gender, and Sexuality Studies. (3 h)**  
Introduces many of the key topics, debates, and theoretical paradigms in the field of Women's, Gender, and Sexuality Studies. Addresses questions such as: What are gender and sexuality and how do gender and sexual norms influence the lives of people in society? What is the relationship between gender and sexuality and other social categories such as race and class? What is power and how is power distributed differently according to gender, race, class, and sexuality? The course strives to train students in analytical thinking and presses them to think critically about gender and sexuality in the past, present, and future. (CD)

**WGS 222. Introduction to Sexuality Studies. (3 h)**  
Provides an interdisciplinary grounding in the foundations of queer culture and studies, with a critical interrogation of sex, gender, sexuality, pleasure, and embodiment in popular culture, literature, health, science, and politics. (CD)



**WGS 224. Readings in Queer Theology. (1.5 h)**

This seminar-style reading course surveys classic and new works in queer theology. Queer theology transgresses dominant constructions of gender identity and sexuality; and as such, it can be seen as an expression of the Christian gospel that subverts human understandings of life, community, and the divine. The course explores biblical and Christian theological perspectives on sexuality, social constructions of sexuality, and issues such as power, marriage equality, and sexual ethics.

**WGS 230. Studies in Gender and Literature. (3 h)**

Addresses ways in which gender and literacy practices intersect in various cultures and historical periods. Attention will be paid to the role of literature in formulating, subverting, or resisting gender norms. May be repeated for credit if topic differs.

**WGS 234. Sexual Revolution! Gender and Sexuality in the United States, 1950-1980. (3 h)**

Examines how conflicts around gender and sexuality played out from the 1950s to the 1970s in both the popular and high culture of the time: in bestselling novels and poems as well as canonical literature, and in television as well as in experimental film. We will consider the 1950s twice: once through the art produced at that time, and then through art produced about the 1950s after mainstream gender norms had shifted.

**WGS 251. Race and Ethnic Diversity in America. (3 h)**

Different race and ethnic experiences are examined through an institutional approach that examines religion, work, schooling, marriage patterns, and culture from cross-cultural perspective. Grand theoretical schemes like the "melting pot" are critiqued for their relevance in an age of new cultural expectations among the many American ethnic groups. Also listed as AES 251. (CD)

**WGS 271. Making Sense of the News Through a Feminist Lens. (1-3 h)**

Inquiry into news literacy from a feminist perspective, with the intention to identify gender bias and consider questions of empowerment, exclusion, consumerism, and how to navigate the digital landscape to distinguish verified, reliable news from propaganda.

**WGS 301. Feminist Political Thought. (3 h)**

Introduction to feminist thought and its implications for the study and practice of political theory. Topics include feminist critiques of the Western political tradition and schools of feminist political theory. Also listed as POL 277. (CD)

**WGS 302. Feminist Philosophy. (3 h)**

Examination of feminist approaches to philosophical theorizing. Topics may include feminist critiques of the scope and methods of mainstream philosophy, feminist approaches to ethics, epistemology and philosophy of language, and feminist conceptions of the self, sexuality, and moral agency. Also listed as PHI 379. P-One PHI course or POL.

**WGS 305. Transgender History, Identity and Politics. (3 h)**

Explores the experiences of and responses to transgender, gender non-conforming, and intersex (TGI) people in nineteenth-and twentieth-century America. We will examine how scientific/medical authorities, legal authorities, and everyday people have understood and responded to various kinds of gender non-conformity. Same as HST 371. (CD)

**WGS 306. Queer Public Histories. (3 h)**

Explores how public history projects (oral histories, museums, archives, documentaries) document gay, lesbian, and queer communities in the U.S. Discusses how historical and contemporary LGBTQ stories have been collected and examines the various queer identities that emerge through this process. Same as HST 372.

**WGS 309. Environmentalism, the Humanities, and Gender. (3 h)**

Survey of the global spread of Environmentalism, with an emphasis on its evolution as a disciplinary field that includes eco-feminism and feminist perspectives on the environment. Topics include the investigation of women's roles in environmental history and the construction of global environmental narratives. Also listed as HMN 292.

**WGS 310. Gender, Power and Violence. (3 h)**

A research-centered study of various issues related to violence, power, and gender in American society. Emphasizes sociological analysis of competing theoretical explanations of violence with respect to race, class, gender, religion, and sexual orientation. (CD)

**WGS 318. Film Lab in Women's, Gender, and Sexuality Studies. (1.5 h)**

Viewing, dissecting, and analyzing films. Fosters the skills to create complex cinematic analyses and explore feminist theoretical issues related to spectatorship.

**WGS 319. Women Playwrights. (3 h)**

Examination of selected plays and/or performance texts by women. Focus varies, for example, looking at works by contemporary American women or early women dramatists such as Hrosvitha, Sor Juana, and Aphra Behn. Also listed as THE 373. (CD)

**WGS 322. Feminist, Womanist, Murjerista Theologies: Constructive Perspectives on Christian Thought. (3 h)**

Examines major topics in Christian theology from African American (womanist), Latina/Hispanic (mujerista), and queer perspectives.

**WGS 326. Telling Women's Lives: Writing about Entrepreneurs, Activists, and Thought Leaders. (3 h)**

This course will use an interdisciplinary approach to address fundamental issues of female leadership by examining recent developments in long- and short-form narratives about women (biography, essays, profiles) and employing journalistic tools to interview and write profiles of women entrepreneurs, activists, and thought leaders. Also listed as ENT 326.

**WGS 329. Politics of Gender and Sexuality: Cross-Cultural Perspectives. (3 h)**

Examines cultural constructions of gender and sexuality from a cross-cultural perspective and the relationship between feminism and cultural rights activism through time. Emphasizes how varied forms of feminisms are constituted within diverse social, cultural, and economic systems. Students consider how feminists are negotiating positions at the intersection of cultural and human rights. Also listed as ANT 329.

**WGS 330. Gender and the Politics of Health. (3 h)**

Examines the intersections of gender, medicine, health, and illness, with a focus on the U.S. context. Topics include: reproduction, mental illness, breast cancer, heart disease, and HIV/AIDS, among others. We explore the following questions: How have women and men interacted differently with the field of medicine, as healers, patients, and subjects of medical research? How do social and cultural norms about gender influence the definition of illness categories? What role does medicine play in defining and enforcing the boundaries of what is considered socially acceptable in terms of gender? How does gender as a social role affect health outcomes?.

**WGS 332. Men, Masculinity and Power. (3 h)**

Offers an introduction to the burgeoning interdisciplinary field of masculinity studies. Students will explore the social, historical, and cultural construction of masculinity and male roles (as fathers, sexual and romantic partners, and workers) and how these constructions differ according to race, class, sexuality, etc. In addition, the course will examine how norms about masculinity simultaneously empower men as a group and many individual men, while also disadvantaging many individual men and regulating the behavior of all men. Students will explore possibilities for challenging hegemonic forms of masculinity and for creating new types of masculinity.

**WGS 333. Sexual Politics in the United States. (3 h)**

Explores the politics of sexuality in the United States. Drawing on feminist scholarship, queer theory, and lesbian, gay, and transgender studies, we will explore different historical and theoretical approaches to thinking about issues of power and sexuality. We will discuss sexual identities and cultures, state regulation of sexuality, sexual commerce, and cultural representations of sexuality, among other topics. Throughout we will examine how other social categories such as race, class, gender, and disability intersect with the politics of sexuality.

**WGS 345. Girls Gone Wild: A Century of Misbehavior. (3 h)**

Analyzes what made girls and women "bad" and "wild" in the twentieth-century United States, and how such judgments changed over time. Engages closely with novels, short stories, movies, comics, podcasts, and an opera with an eye to what behaviors were considered appropriate, and how they interrelated with sexual attraction, with economics, and with love. We examine the relationship between being configured as a sexual object (a recipient of desire) and a sexual subject (a possessor of desire), and come to a critical understanding of how the "proper" and "improper" forms of both were constantly in flux. We ask how race, ethnicity, and queerness interacted with hegemonic concepts of beauty and desire, and whether "masculinity" and "femininity" are necessarily attached to men and women. We read theories of sex and gender, examine concepts of projection and male hegemony, and ask how men as well as women are shaped by rules of appropriate behavior.

**WGS 346. Visual Narratives: Image, Sequence, Story. (3 h)**

Investigates the relationship of image, sequence, and story in typography, comics, woodcut novels, and photographic books, and film, as well as fiction and poetry with unusual visual elements, and then asks how these various elements offer different visual and textual expressions of sexuality. Students will conduct formalist analyses and further investigate visual narrative through creative exercises with the goal of developing an aesthetic sensibility and a technical vocabulary that enable them to discuss visual narrative with precision. Please note that some visual narratives will include graphic scenes of sexuality. Same as ENG 345.

**WGS 347. Joan Didion/Edmund White: Personal/History. (3 h)**

Examines Didion and White, two of the most important American writers of the past fifty years. Both are known for their journalism as well as their fiction, and their interest in U.S. cultural and political history, especially in terms of gender and sexuality, permeates their novels. This course analyzes three works by each author, developing themes from motherhood, sexuality, imperialism, rebellion and AIDS.

**WGS 349. Invert, Pervert, Bull Dagger, Queen: U.S. Queer Fiction in the 20th Century. (3 h)**

Explores the history of lesbians, gay men, bisexuals, the transgendered, and other queers through fiction by and about them written over the last century in the United States. We also consider biography, artifacts of popular culture, comics, drama, and film. Topics include the relationship between homosexual desire and queerness in a broad sense; LGBTQ children; biological and psychological understandings of sexual orientation; and how social construction informs sexual identity and desire.

**WGS 358. Mothers and Daughters. (3 h)**

A course that examines literature, psychology, and feminist theories on motherhood and the mother-daughter relationship.

**WGS 362. Feminism and Theatre. (3 h)**

Introduces students to the intersection of theater and feminism and experience its interdisciplinary lineage and academic interventions. Students will learn and apply feminist theory, which looks beyond the conventional theater for a continuum of performance that includes play, ritual, sport, everyday life and social roles, as well as performance art, global and intercultural performance. Engaging with various feminist theoretical approaches from radical and liberal feminism to intersectional and transnational feminism, students will be encouraged to critically examine race, class, gender, sexuality, ethnicity, and nationality expressed on and offstage.

**WGS 363. Gender and Sexuality in Contemporary Korea. (3 h)**

Examines gender and sexuality in Korean TV, film, K-pop, protests, and everyday performances, focusing on diverse socio-political issues within and beyond the Korean Peninsula. Topics include: the evolution of feminism, #metoo movement, LGBTQ cultures, sex work, aging, plastic surgery industry, postcolonial and post-Korean war conflicts, and transpacific affinities. (CD)

**WGS 364. Women of Color, Feminisms, and the Politics of Resistance in the U.S. (3 h)**

Examines historical and contemporary issues and current events affecting the lives of African American, Asian American, Latina, and Native American women. Exploring major theoretical and practical viewpoints in women's studies scholarship, the course will reveal the importance of intersectionality between race, gender, sexuality, class, and/or ethnicity in the everyday lives of multicultural women. Through arts-based civic engagement projects and activities, this course will also encourage students to formulate their own language of resistance against multiple forms of oppression. (CD)

**WGS 365. Transnational Asia and Asian American Feminism. (3 h)**

Analyzes historical, socio-political, and cultural events as well as contemporary issues structuring the lives of Asian American women and queer community. Students will learn intersectional and transnational feminist approaches to examine race, class, gender, sexuality, ethnicity, nationality, and kinship in Asian American art and activism.

**WGS 377. Special Topics. (1.5-3 h)**

Includes such women's, gender and sexuality studies topics as gender issues in the twenty-first century, critical approaches to women's issues, and the emergence of feminist thought. May be repeated for credit if topic differs.

**WGS 380. Sexuality, Law, and Power. (3 h)**

Explores a wide variety of issues related to sexual identity and orientation by looking at the ways in which the law can constrict social development as well as act as a catalyst for change. Examines how religion and popular morality shape the law and are shaped by it.

**WGS 381. Gender and the Law. (3 h)**

Examines how the law affects women's lives in a number of contexts. Considers a number of different areas, including but not limited to employment, education, family responsibilities, violence against women, and other issues affecting women's bodies, including pornography and prostitution. The class will also review a number of feminist legal theories and issues relating to the intersection of gender with race and class.

**WGS 383. Race, Gender, and the Courts. (3 h)**

Examines the impact of state and federal court cases upon the evolution of race and gender relations in the U.S. from 1789 to the present. Each case is placed within the political, economic and social historical context for the given time periods. Race includes Native Americans, African Americans, Asian Americans, and Latino Americans. This class will analyze government intervention, inaction, and creative interpretation. Same as HST 358.

**WGS 388. South Asian Women: Religion, Culture and Politics. (3 h)**

Using a feminist and post-colonial perspective, and taking into account the histories, experiences, and lives of South Asian women, this course, examines the intersection of religion, race, and gender from both a theoretical and a practical point of view. It focuses on issues of representation and identity formation, recognizing how categories such as "South Asian" and "woman" become tools for a simultaneous understanding of both culture and gender, creating a place for both oppression and empowerment. Same as REL 388.

**WGS 396. Independent Study. (1-3 h)**

Independent projects in women's, gender, and sexuality studies which either continue study begun in regular courses or develop new areas of interest. Course may be repeated, but a maximum of 3 hours may apply to the minor. By prearrangement.

**WGS 397. Public Engagement in Women's, Gender, and Sexuality Studies. (1.5, 3 h)**

An opportunity for students to engage in work and research that is shared with the broader public, either on campus or in a local community. A maximum of 3 hours may apply to the major or minor. P-POI.

**WGS 398. Theory and Practice of Women's, Gender, and Sexuality Studies. (3 h)**

Examines the major themes and terminology in Women, Gender, and Sexuality Studies, with focus on its diverse and multicultural expressions through time. Themes to be explored include schools of feminism, interlocking systems of oppression and the connection between theory and practice.

**WGS 399. Research Seminar in Women's, Gender, and Sexuality Studies. (3 h)**

A capstone, research-centered course in which students complete a significant research or creative project of their choosing situated within the field of Women's, Gender, and Sexuality Studies.

## Faculty

**Chair** Simone M. Caron

**Professor** Shannon Gilreath

**Associate Professors** Wanda Balzano, Kristina Gupta

**Assistant Professors** Jieun Lee, Jeff Solomon

**Part-Time Assistant Teaching Professor** Angela Mazaris

**Visiting Associate Professor** Jayati Lal

**Visiting Assistant Professors** Rachel Corbarn

# Women's, Gender, and Sexuality Studies, B.A.

## Requirements

Requires a minimum of 28.5 hours and must include the following courses:

Code	Title	Hours
WGS 221	Introduction to Women's, Gender, and Sexuality Studies	3
or WGS 222	Introduction to Sexuality Studies	
WGS 398	Theory and Practice of Women's, Gender, and Sexuality Studies	3
WGS 399	Research Seminar in Women's, Gender, and Sexuality Studies	3
Select one of the following:		3
WGS 397	Public Engagement in Women's, Gender, and Sexuality Studies (internship)	
Any WGS or WGS cross-listed course with a service-learning or public-engagement component		
Select 16.5 hours of Elective courses *		16.5

\* *Must consist of WGS courses and courses approved for WGS credit (consult approved list on file with the Chair).*

- No more than 9 hours from one department other than WGS or program may apply to the WGS major.
- No more than 3 hours may be taken pass/fail.
- No more than 6 hours from the 100-level may count toward the major.
- No more than 6 hours from the student's minor(s) may count toward the major.
- No online course taken at institutions other than Wake Forest may count towards the major

Students pursuing the major are encouraged to enroll in WGS 221 or WGS 222 by the fall semester of the junior year, WGS 398 by the spring semester of their junior year, and WGS 399, the research seminar, during their senior year.

## Electives for Women's, Gender, and Sexuality Studies

Code	Title	Hours
All courses are subject to approval for the major and the minor. Special Topics courses must be in a relevant area. Additional elective courses may have been approved since publication of this bulletin. The chair of the department maintains a complete list of all official elective courses.		

**Courses in the Humanities**

AES 357	Studies in Chicano/a Literature	3
ART 351	Topics in Gender and Art	3
CLA 252	Women, Gender, and Sexuality in Antiquity	3
EAL 241	Gender in Japanese Literature	3
ENG 340	Studies in Women and Literature	3
ENG 344	Studies in Poetry (when topic relates to WGS)	3
ENG 357	Studies in Chicano/a Literature	3

ENG 371	American Ethnic Literature	3
GES 390	German Women Writers	3
HST 324	Fashion in the Eighteenth Century	3
HST 336	Gender and Power in African History	3
HST 337	Women and Gender in Early America	3
HST 338	Sexuality, Race and Class in the United States since 1850	3
HST 348	Samurai and Geisha: Fact, Film, and Fiction	3
HST 359	Prostitutes, Machos, and Travestis: Sex and Gender in Latin American History	3
HST 388	Nation, Faith, and Gender in the Middle East	3
HMN 223	African and Caribbean Literature	3
HMN 290	The Humanities through Film, Literature and Media	3
ITA 335	Italian Women Writers	3
ITA 336	Italian Women and the City	3
MUS 208	Women and Music	3
REL 318	Feminist and Contemporary Interpretations of the New Testament	3
REL 345	The African-American Religious Experience	3
REL 388	South Asian Women: Religion, Culture and Politics	3
SPA 348	Contemporary Women Novelists and their Female Characters	3

**Courses in the Social and Natural Sciences**

AES 310	Race, Class, and Gender in a Color-blind Society	3
ANT 332	Anthropology of Gender	3
ANT 333	Language and Gender	3
COM 318	Culture and Sitcom	3
COM 320	Media Theory and Criticism	3
COM 340	Democracy, Slavery and Sex: Emancipation Discourse from the Founding to the Civil War	3
COM 341	Class, Race, Sex and War: Emancipation Discourse from the Civil War to the Second Wave of Feminism	3
COM 370	Special Topics (when topic is "Race, Class, Gender, and Sexuality")	1-3
LIN 333	Language and Gender	3
POL 229	Women, Gender, and Politics	3
POL 277	Feminist Political Thought	3
PSY 265	Human Sexuality	3
PSY 359	Psychology of Gender	3
PSY 364	Stereotyping and Prejudice	3
SOC 153	Contemporary Families	3
SOC 305	Gender in Society	3
SOC 309	Sexuality and Society	3
SOC 347	Society, Culture, and Sport	3
SOC 359	Race and Racism	3
SOC 360	Social Inequality	3

**Honors**

Highly qualified majors, who have earned an overall GPA of 3.3, with an average of 3.5 on work in WGS, may apply for admission to the honors program in Women's, Gender, and Sexuality Studies. To be graduated with the designation "Honors in Women's, Gender, and Sexuality Studies," the student must present an honors-quality research paper and successfully defend the paper in an oral examination. For additional information, students should consult the department chair.

**Women's, Gender, and Sexuality Studies, Minor****Requirements**

Requires a total of 18 hours.

Code	Title	Hours
WGS 221	Introduction to Women's, Gender, and Sexuality Studies	3
or WGS 222	Introduction to Sexuality Studies	
Select a minimum of 15 additional hours		15

If courses not designated WGS are taken, they must be from an approved list on file with the chair of the department; examples of these courses are listed below.

- Students may count no more than 6 hours from their major(s) toward the minor.
- No more than 3 hours may be taken pass/fail.
- No online course taken at institutions other than Wake Forest may count toward the minor.

Students pursuing the minor are encouraged to take WGS 221 in the first or second year prior to taking other 200 or 300 level classes.

**Electives for Women's, Gender, and Sexuality Studies**

Code	Title	Hours
All courses are subject to approval for the major and the minor. Special Topics courses must be in a relevant area. Additional elective courses may have been approved since publication of this bulletin. The chair of the department maintains a complete list of all official elective courses.		

**Courses in the Humanities**

AES 357	Studies in Chicano/a Literature	3
ART 351	Topics in Gender and Art	3
CLA 252	Women, Gender, and Sexuality in Antiquity	3
EAL 241	Gender in Japanese Literature	3
ENG 340	Studies in Women and Literature	3
ENG 344	Studies in Poetry (when topic relates to WGS)	3
ENG 357	Studies in Chicano/a Literature	3
ENG 371	American Ethnic Literature	3
GES 390	German Women Writers	3
HST 324	Fashion in the Eighteenth Century	3
HST 336	Gender and Power in African History	3
HST 337	Women and Gender in Early America	3

HST 338	Sexuality, Race and Class in the United States since 1850	3
HST 348	Samurai and Geisha: Fact, Film, and Fiction	3
HST 359	Prostitutes, Machos, and Travestis: Sex and Gender in Latin American History	3
HST 388	Nation, Faith, and Gender in the Middle East	3
HMN 223	African and Caribbean Literature	3
HMN 290	The Humanities through Film, Literature and Media	3
ITA 335	Italian Women Writers	3
ITA 336	Italian Women and the City	3
MUS 208	Women and Music	3
REL 318	Feminist and Contemporary Interpretations of the New Testament	3
REL 345	The African-American Religious Experience	3
REL 388	South Asian Women: Religion, Culture and Politics	3
SPA 348	Contemporary Women Novelists and their Female Characters	3
<b>Courses in the Social and Natural Sciences</b>		
AES 310	Race, Class, and Gender in a Color-blind Society	3
ANT 332	Anthropology of Gender	3
ANT 333	Language and Gender	3
COM 318	Culture and Sitcom	3
COM 320	Media Theory and Criticism	3
COM 340	Democracy, Slavery and Sex: Emancipation Discourse from the Founding to the Civil War	3
COM 341	Class, Race, Sex and War: Emancipation Discourse from the Civil War to the Second Wave of Feminism	3
COM 370	Special Topics (when topic is "Race, Class, Gender, and Sexuality")	1-3
LIN 333	Language and Gender	3
POL 229	Women, Gender, and Politics	3
POL 277	Feminist Political Thought	3
PSY 265	Human Sexuality	3
PSY 359	Psychology of Gender	3
PSY 364	Stereotyping and Prejudice	3
SOC 153	Contemporary Families	3
SOC 305	Gender in Society	3
SOC 309	Sexuality and Society	3
SOC 347	Society, Culture, and Sport	3
SOC 359	Race and Racism	3
SOC 360	Social Inequality	3

## Other Courses

### ACP 101. Preparing for Academic Quiz Competition. (1 h)

Prepares students for academic quiz competition (quiz bowl) via the study of academic material in history, science, literature, mythology, philosophy, religion, social sciences, fine arts, geography, current events and other fields; via writing questions for academic competition tournaments; and via on-campus competition. Pass/Fail only. May be taken three times for credit. P-POI.

### FYE 101. The College Transition. (1 h)

Exploration of issues related to academic success, living in community, and wellbeing in the transition to college. Emphasizes principles, understanding, and skills to promote a successful college transition. Pass/fail only. First-year students only.

### FYS 100. First Year Seminar. (3 h)

First year seminars are a basic requirement for graduation and are designed to enhance each student's academic and social integration into Wake Forest. They foster intellectual interchange, both written and oral, and encourage examination of opposing viewpoints through reading, writing, and debate of issues in a small group setting. Seminars are offered in most academic departments and programs.

### LIB 100. Academic Research and Information Issues. (1.5 h)

An introduction to the research process and methods for finding, retrieving and evaluating information in an academic library and through online sources. Encourages the development of the skills, attitudes and abilities essential to the discovery of information and promotes an understanding of how scholarship is produced, valued, and shared. Explores the use of information in creating new knowledge and participating ethically in communities of learning.

### LIB 210. Social Sciences Research Sources and Strategies. (1.5 h)

This half-semester course helps students develop as emerging social science scholars. Through exploring the sources and strategies used in social science research, students will explore interdisciplinarity; design an effective research process; investigate and critically evaluate sources; develop proficiency in APA style and citation management software; participate in scholarly conversations; and reflect on issues around information production, access, and authority. Must be sophomore or above to enroll.

### LIB 220. Science Research Sources and Strategies. (1.5 h)

This half-semester course provides students with an understanding of the sources and strategies for doing research in the natural sciences as well as the ethical, legal, and socioeconomic factors that influence scientific information production and dissemination. P-Major or minor in science discipline or POI.

### LIB 230. Business and Accounting Research Sources and Strategies. (1.5 h)

Provides students with an understanding of the sources and strategies necessary for doing research in business and accounting. Topics include strategies for developing research projects, resources available in each discipline, finding and evaluating sources and interpreting research results. P-Major in business or accounting. P-Major in business or accounting or POI.

**LIB 235. Research Methods for Entrepreneurs. (1.5 h)**

This course is intended for students pursuing a minor in entrepreneurship or starting their own entrepreneurial project. It will introduce them to research methods and resources appropriate for business planning, including subscription-based resources available through WFU as well as reliable free resources available from governments, public libraries and elsewhere. The class will learn how to assess a potential market during the exploratory phase all the way through evaluating competitors and industry trends for more fully-formed business concepts. Trends in information gathering and information use by entrepreneurs will also be discussed.

**LIB 240. History, Politics and Legal Research Sources and Strategies. (1.5 h)**

Provides students with an understanding of the sources and strategies necessary for doing research in history, political science and law. Topics include strategies for developing research projects, resources available in each discipline, finding and evaluating sources and interpreting research results. Must be sophomore or above to enroll.

**LIB 250. Humanities Research Sources and Strategies. (1.5 h)**

Provides students with an understanding of the sources and strategies necessary for doing research in the humanities (English, classics, humanities, religion, history, philosophy, foreign language, art, music, theatre, dance). Topics include strategies for developing research projects, resources available in each discipline, finding and evaluating sources and interpreting research results. Must be sophomore or above to enroll.

**LIB 260. History of the Book 1500-2000. (1.5 h)**

Introduces students to issues in the history of the book in the West, from early modern manuscript culture through the beginnings of the digital age. Using materials from ZSR Library's Rare Books Collection, students examine printed texts as objects of study in three major ways: as material artifacts, as vehicles for text, and as social constructs. Class assignments include a descriptive bibliography/research paper, in addition to hands-on typesetting, printing, and bookbinding projects. For more information contact the Special Collections Librarian, ZSR Library.

**LIB 290. Topics in Information. (1-3 h)**

Intensive look at one or more current topics in information. Course may be retaken for credit if topic varies.

**SPM 201. Basic Athletic Training. (3 h)**

A study of the basic knowledge and skills in the prevention, treatment, and care of common athletic injuries.

**SPM 302. Advanced Athletic Training. (3 h)****WDC 100. Internship. (3, 6 h)**

A one semester internship in government, a non-governmental organization, non-profit organization, or business, matching the individual student's interests. Part of the Wake Washington semester program.

# WAKE FOREST UNIVERSITY SCHOOL OF BUSINESS

In today's fiercely competitive marketplace, you need more than just a degree. Employers are looking for students that can stand out from the crowd and contribute from day one. You'll gain that competitive edge at the Wake Forest University School of Business. As an undergraduate business school student, you'll be exposed to a world of opportunity that will give you the chance to develop the skills and experience that employers are seeking. With classes and activities in the inspiring new Farrell Hall, you'll benefit from team-based learning, professional development, hands-on experience, leadership opportunities and study abroad programs. You'll also receive personal attention and access to some of the best business minds in the country—our faculty and alumni. You will leave the School of Business armed with the practical experience and the business acumen to set you apart from the competition.

The Wake Forest University School of Business offers a Bachelor of Science (BS) degree program for undergraduates.

1. **Accountancy (ACC)** – Prepares students for careers in accounting and consulting firms, investment banks, and other institutions. Provides a foundation for the Master of Science in Accountancy (MSA) degree, which is strongly recommended.
2. **Business and Enterprise Management (BEM)** – Preserves a general business curriculum while allowing students to gain greater depth in a number of specialty areas. Emphasizes development of strong leadership and critical thinking skills, enabling students to pursue management careers in a wide range of fields.
3. **Finance (FIN)** – Prepares students for careers in financial services, including investment and commercial banking and financial consulting.
4. **Mathematical Business (MBU)** – The mathematical business major, offered by the School of Business jointly with the Department of Mathematics, offers technical and quantitative training with a comprehensive business acumen to prepare students for careers that require data analytics-based, advanced quantitative approaches to problem solving. In today's complex global environment, where problems in business, consulting, and public policy are becoming more intricate, the program equips students with the methodology skills at the interface with business and statistics. The mathematical business major is a STEM-designated (science, technology, engineering, and mathematics) degree program, for international student OPT application purposes.

## Accreditation

The Wake Forest School of Business is accredited through AACSB International's management accreditation standards as well as its accounting accreditation standards. Accounting accreditation is an elective extension of management accreditation. AACSB International may be contacted at 813-769-6500,

777 South Harbour Island Boulevard, Suite 750  
Tampa, Florida 33602

and at [www.aacsb.edu](http://www.aacsb.edu) (<http://www.aacsb.edu>). Inquiries should relate only to the accreditation status of the school and not to general admissions information.

AACSB International accreditation represents the highest standard of achievement for business schools and accounting programs, worldwide. Institutions that earn accreditation confirm their commitment to quality and continuous improvement through a rigorous and comprehensive peer review. AACSB International accreditation is the hallmark of excellence in business education.

Wake Forest University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, masters, and doctorate degrees. Contact the:

Commission on Colleges  
866 Southern Lane  
Decatur, Georgia 30033-4097

or call 404-679-4500 for questions about the accreditation of Wake Forest University.

## Programs and Majors

The Wake Forest School of Business offers a four-year bachelor of science degree, with majors in:

- Accountancy
- Business and Enterprise Management
- Finance
- Mathematical Business (offered jointly with the Department of Mathematics)

and four graduate degree programs:

- Master of Science in Accountancy (MSA)
- Master of Science in Management (MSM)
- Master of Business Administration (MBA)
- Master of Science in Business Analytics (MSBA)

When taken in conjunction with the School of Business's undergraduate degrees (Accountancy or Finance), the MSA degree requires only one additional year of study.

## Programs Majors

- B.S. in Accountancy
- B.S. in Business and Enterprise Management
- B.S. in Finance
- B.S. in Mathematical Business

## Courses

### Accountancy (ACC)

#### ACC 111. Introductory Financial Accounting. (3 h)

Introduction to financial accounting and reporting, including the role of financial information in business decisions, the basic financial statements, and the processes used to prepare these financial statements. Students are introduced to the accounting and reporting issues associated with an organization's financing, investing, and operating activities. Sophomore standing. P-Sophomore standing; minimum cumulative GPA 2.85; or POI.

**ACC 211. Intermediate Accounting I. (4 h)**

Study of the conceptual framework underlying financial accounting in the United States as well as the financial accounting standards setting process and the basic corporate financial statements. Financial accounting and reporting issues associated with receivables, inventories, property, plant, and equipment, and intangible assets are also examined. P-minimum of C in ACC 111.

**ACC 212. Intermediate Accounting II. (4 h)**

Examination of financial accounting and reporting issues associated with current liabilities and contingencies, long-term liabilities, stockholders' equity, dilutive securities and earnings per share, income taxes, pensions, and postretirement benefits, leases, financial statement errors, and the statement of cash flows. P-Minimum of C in ACC 211.

**ACC 221. Introductory Management Accounting. (3 h)**

Study of the concepts fundamental to management accounting which aid in decision-making, performance evaluation, and planning and control. The topics covered include product costing systems, budgeting, differential and breakeven analysis, responsibility accounting, cost allocation, and management accounting reports. P-Minimum of C in ACC 111.

**ACC 237. Taxes and Their Role in Business and Personal Decisions. (3 h)**

Review of legal and accounting concepts associated with the federal taxation of personal income. Topics examined include the regular and alternative minimum tax models as well as gross income, capital gains, property transactions, deductions, and credits. P or C-Accounting 211 or POI.

**ACC 311. Advanced Financial Accounting. (3 h)**

A comprehensive study of business combinations, the equity method of accounting for investments in common stock, and consolidated financial statement preparation. Also covered are accounting theory as applied to special problems such as accounting for partnerships and international accounting issues including foreign currency financial statement translation. In addition, government and nonprofit accounting are introduced in this course. P-ACC 211 and 212 with a grade of C or better.

**ACC 321. Accounting for Managerial Decision Making. (3 h)**

Provides students with advanced exposure to topics in cost structure management, planning, control, and decision making. Primary emphasis is placed on developing students' appreciation for how financial modeling and strategic analysis work together in unified decision making. To develop students as financial leaders, the foundation of the course will be the Information Value Chain promulgated by accounting academic researchers (e.g. Blocher 2009) and accounting practitioner organizations (Institute of Management Accountants). P-ACC 221 with a grade of C or better.

**ACC 351. Accounting Information Systems. (3 h)**

Study of the design and operation of accounting systems including the revenue, expenditure, and administrative transaction cycles. Emphasis is on the necessary controls for reliable data. P-BEM 251, and a minimum of C in ACC 212; or POI.

**ACC 352. Introduction to Auditing. (3 h)**

Examination of basic auditing concepts and practices, and the auditor's professional responsibilities. Emphasis is on auditing standards and the auditing procedures commonly used in public accounting. P-minimum of C in ACC 212; C-ACC 351; or POI.

**ACC 378. Individualized Reading and Research. (1-3 h)**

Directed study in specialized areas of accountancy. P-POI.

**ACC 390. Professional and Ethical Responsibilities of Accountants. (1.5 h)**

This course begins the process of moving students along a continuum from student to emerging accounting professional. Students develop an understanding of the accounting profession's broad societal purposes, as well as its ethical and professional standards and practices, along with an understanding of their various responsibilities as professional accountants - to the profession, to their clients, and to the public at large. Students reflect on the meaning and demands of professional accounting practice so as to develop an emerging professional identity consistent with the profession's broad purposes and ethical standards and practices. P-Senior standing or POI.

**ACC 391. Professional Accounting Internship. (3 h)**

Professional accounting field work, under the direction of a faculty member. Students gain relevant practical experience which builds on prior coursework and provides an experiential knowledge base for coursework. Pass/Fail. P-ACC 390. C-ACC 392.

**ACC 392. Professional and Ethical Responsibilities of Accountants - Internship Practicum. (1.5 h)**

Students apply, reinforce, and extend the themes and topics of ACC 390 in the context of a professional accounting internship. P-ACC 390.

**ACC 393. Professional and Ethical Responsibilities of Accountants - Case Study Practicum. (1.5 h)**

Students use a combination of historical and fictional case studies to apply, reinforce, and extend the themes and topics of ACC 390. P-ACC 390 (Not open to students who have taken ACC 392)

## Business (BUS)

**BUS 101S. Introduction to Business Software. (1.5 h)**

Provides students with basic skills in business software. Focuses on software for presentations, spreadsheets, and databases. In addition, students are familiarized with databases provided through the library and through the Internet that facilitate their ability to do research. This course does not count towards a School of Business degree. Summer only.

**BUS 111. Professional Life Skills. (1.5 h)**

Provides students with the basics of managing their personal finances and employee benefits. Focuses on topics such as: personal banking and budgeting fundamentals; individual credit and tax issues; employee investment and insurance options; and home rental or purchase considerations. Open to School of Business and non-School of Business students. Does not count towards a School of Business degree. Pass/Fail only.

**BUS 181. Field Study. (1 h)**

Directed field study in specialized areas of business. Does not count towards a School of Business degree. Pass/Fail only. Limit of 2. P-ACC 111, POI.

**BUS 281. Individualized Reading and Research. (1-3 h)**

Directed study in specialized areas of business. P-POI.

**BUS 295. Summer Management Program. (8 h)**

A study of the various functions of business including accounting, finance, information systems, management, marketing, production, and strategic planning. Special application and admission procedures. Does not count towards a Calloway Major. Pass/Fail only. Offered only in the summer and open only to junior and senior liberal arts majors.



**BUS 296. Silicon Valley Practicum. (3 h)**

The practicum, which includes on-the job and academic components, is a supervised learning experience that applies the foundational business skills learned in the Summer Management Program. Required residency in Northern California. Special application and admissions procedures. Applicants must successfully complete BUS 295 Summer Management Program. Does not count toward a business major.

**BUS 297. SportsCOM. (6 h)**

Study of the concepts, operations, and management principles associated with the sports industry. Students are introduced to such areas as the foundation of sports management, sociology of sports, sports marketing, psychology of coaching, sports economics and finance, ethics in management of sports organizations, legal issues in sports management, athletics administration, facilities management, and the strategic management of sports organizations. Students may not receive credit for both BUS295 and BUS297. Pass/Fail only. Offered only in the summer with preference given to first-year students.

**BUS 350. General International Elective. (1-3 h)**

## Business and Enterprise Management (BEM)

**BEM 201. Quantitative Analysis I. (3 h)**

Emphasizes the understanding and application of quantitative tools used in the business decision-making process. Issues covered include collection and presentation of data, sampling, and inferences. P-ACC 111 with a C or better and sophomore standing; or POI. (QR)

**BEM 202. Quantitative Analysis II. (3 h)**

Emphasizes the understanding and application of quantitative tools for analysis and managerial decision-making. Topics include such statistical tools as Chi-Square methods, analysis of variance and regression, and correlation analysis. Management science tools include statistical decision theory and some deterministic optimization models such as linear programming and its various extensions. Application of these methods to the analysis of decisions from various functional areas of business is an important component of the course. P- BEM 201.

**BEM 211. Organizational Behavior. (3 h)**

This survey course provides a broad overview of several evidence-based theories and frameworks of organizational behavior (OB) at the individual, group and organizational levels of analysis that can be applied to help identify, diagnose and provide solutions to important organizational challenges. In this way, students will gain the requisite knowledge and skills necessary to become more effective working professionals. P- or C- (For BEM majors only) BEM 287.

**BEM 221. Principles of Marketing. (3 h)**

Investigates the means by which firms create, maintain, and improve relationships with customers through the development of strong brands and effective marketing programs. Emphasizes the application, rather than the acquisition, of marketing knowledge. Explores how the four Ps-product, price, place, and promotion-can be used to solve problems, exploit opportunities and meet challenges in the global marketplace. Discussions, cases, objective tests, in-class exercises and a marketing campaign project are among the instructional methods used. P-ECN 150, ACC 111, or POI.

**BEM 241. Production and Operations Management. (3 h)**

Introduces the basic concepts of operations strategy and operations planning in support of the business strategy of the firm. Topics include: operations strategy, quality management, project planning and control, capacity planning, location, layout, demand forecasting, supply chain management, aggregate planning, production scheduling, and inventory systems. P-BEM 201; STA 212 for MBU majors.

**BEM 251. Management Information Systems. (3 h)**

Introduction to the business issues associated with information systems, designed to provide a broad perspective for utilizing and managing an organization's information resources. Frameworks are presented for understanding the placement and relationship of different types of information systems within an organization. Includes an overview of computing technology currently used in business organizations, techniques for developing and implementing information systems, advanced applications of information technology, and the strategic implications of information systems and technology for business.

**BEM 261. Legal Environment of Business. (3 h)**

Study of the legal environment in which business decisions are made in profit and nonprofit organizations. Emphasis is on how the law develops and how economic, political, social, international, and ethical considerations influence this development. Includes an overview of private law topics (such as torts, contracts, and agency) and public regulation of the employment relationship, the competitive marketplace and the environment. P- or C-ACC 111.

**BEM 287. Professional Development Workshop Series A. (0-1.5 h)**

Enhances students' career-building skills through a series of workshops designed to address specific dimensions of professional development and career management. Students select from a menu of opportunities available during their first year in the management program, content varies. Pass/Fail only. P-Admission to the School of Business and the BEM major.

**BEM 312. Human Resource Management. (3 h)**

Focuses on important human resources management (HRM) skills that are frequently used by general managers. Upon completion of the course, students should be literate in basic HRM concepts, knowledgeable of general managers' HRM responsibilities, and skilled in HRM applications as prospective managers. P- BEM 211.

**BEM 315. Managing in a Global Context. (3 h)**

Focuses on professional effectiveness in a global setting, whether in a global company, leading a global team, or doing business abroad. Emphasis is on cross-cultural differences and their impact on the conduct of business. Conducted in a seminar format, the course examines the complexities involved in operating in different cultures and the implications which these cultural differences have on managing organizations and employee behavior. P-BEM 211 or POI.

**BEM 316. Leading in Nonprofit Sector. (3 h)**

Explores the role of nonprofit organizations (churches, schools, civic organizations, health clinics, etc.) and examines how to effectively lead them. Basic knowledge areas of responsibility in nonprofit organizations (i.e. legal classifications and issues, recruiting and managing volunteers, community development, fundraising, board development and ethical concerns) are covered. Pertinent leadership theories and issues addressed. One half of the available seats are open to non-School of Business majors. P-Junior or senior standing.

**BEM 318. Calloway Leadership Experience. (3 h)**

Explores the history, art, science and practice of leadership in organizational settings. Focuses on theories and contemporary applications of such issues as change, vision, communication, coaching, followership, and motivation. The experience will capitalize on liberal arts background, previous business courses and students' practicum experience to demonstrate practical leadership insights. Emphasis will be placed upon merging theory and practice using experiential learning to prepare students to excel in leadership positions in their organizations and communities. P - Senior standing and BEM 287.

**BEM 322. Global Marketing Strategy. (3 h)**

Builds on BEM 221 to explore strategic issues in the global marketplace in greater depth through intensive examination of cases from consumer and industrial markets; product and service businesses; and for-profit and nonprofit organizations. Analyzes social, cultural, economic, legal, and political factors present in the global marketplace and their impact on planning and implementing marketing strategy. Focuses on building analytical and decision-making skills. Objective is to ensure students understand the key role of marketing strategy in achieving and maintaining competitive advantage in an ever-changing, increasingly complex global business environment. P-BEM 221.

**BEM 323. Selected Topics in Marketing. (3 h)**

Identifies the most current marketing topics and practices in the dynamic global marketplace and covers them in detail. Focuses on the application of leading-edge concepts and ideas in the creation of superior marketing strategies. Seminar approach requires active student participation in the identification, elaboration, and discussions of course material. P-BEM 221.

**BEM 324. Marketing Research. (3 h)**

Introduction to fundamentals of research methodology and use of research information in marketing decision-making. Topics include research design, data collection methods, scaling, sampling, and alternate methods of statistical data analysis. Students design and execute their own research projects. P- BEM 201 and 221.

**BEM 325. Consumer Behavior. (3 h)**

Focuses on understanding the customers/consumers/buyers/clients/patients/ patrons without whom marketing and business cannot survive. Examines consumer motivations, influences, decision-making processes and behaviors as they relate to the development of competitive marketing strategy. Discussions, mini-cases, in-class exercises, and a project are among the instructional methods used in the course. P- BEM 221 or POI.

**BEM 326. Brand Management and New Product Development. (3 h)**

Provides students with a unique insight into the role of a brand manager charged with identifying and implementing strategies to measure, manage and build brand equity over time. Special emphasis will be placed on identifying new sources of profitable growth while enhancing brand equity through strategic new product development. A team-based approach is utilized and supported by lectures, case studies, guest speakers, and a semester-long brand equity assessment/new product development project. P-BEM 221.

**BEM 327. Marketing Communications. (3 h)**

Designed for students whose career plans involve making strategic marketing decisions. Emphasizes ways to foster relationships with consumers by establishing a dialogue through advertising, consumer and trade promotions, the Internet, direct mail, publicity, packaging, point of sale material and event sponsorship. Discussions, cases, in-class exercises, oral presentations, and a marketing communications campaign project are among the instructional methods used in the course. P-BEM 221.

**BEM 328. Sports Marketing. (3 h)**

Focuses on the application of the strategic marketing process to the rapidly growing sports industry. Varied elements of the industry are examined: understanding the sports consumer; marketing and media; advertising and communication; promotion and special events; licensing; and corporate sponsorships. Current research, including gender-specific marketing, using athletes as endorsers, segmenting the sports market, measuring value of sponsorship, and the impact of technology on sports are covered. P- ECN 150 or equivalent.

**BEM 329. Marketing Analytics. (3 h)**

This course will cover the principles and strategic concepts of marketing analytics, a high-growth area that uses quantitative strategies, resource allocation decisions, and return on marketing investment (ROMI). Topics may include forecasting and positioning; predictive analytics; customer profitability; digital and social media analytics; and resource allocation. P - BEM 201, 221.

**BEM 332. Financial Statement Analysis. (1.5 h)**

This course is intended to present you with a framework for using financial and market information to analyze a business and assess its potential market value. The focus will be on the information included in a firm's financial statements and the accompanying notes, however you will also consider how other available information is relevant to this analysis. Throughout the semester we will examine (i) how to analyze and assess a company's business strategy, (ii) how to interpret and analyze differences in firm-specific application of accounting techniques, (iii) how to analyze financial data in a systematic and logical method, (iv) techniques for forecasting financial information, and (v) techniques for equity valuation. These components will then be pulled together into a comprehensive framework for evaluating a business focusing on the available financial information. P-ACC 111, 221; FIN 231; BEM 201, P or C-BEM 371, or POI.

**BEM 342. Project Management. (1.5 h)**

With today's problems being increasingly more complex, this course offers an important skill set addressing these problems by covering concepts and issues important in effectively managing projects. Some of the topics are project selection, project planning, resource allocation, project control, project auditing, as well as team creation and team leadership. Upon completion of this course, students will have an understanding of the challenges and opportunities involved in project management. They will also understand the types of decisions involved in effectively completing a project meeting stakeholders' expectations, on time, and within budget. P-ACC 111, 221; FIN 231; BEM 201, P or C-BEM 371, or POI.

**BEM 362. Contemporary Issues in Law and Public Policy. (3 h)**

In a seminar setting, the course explores emerging topics that have the capacity to affect the marketplace in significant ways. Flowing naturally from previous law-oriented classes, it provides the opportunity for students to delve more deeply and critically into the actual policies that give rise to legislation, case precedent, and regulation. As such, the course encourages strategic thinking about decision-making in a complex, ever-changing business environment. P-BEM 261.

**BEM 365. Ethics and Business Leadership. (3 h)**

An interdisciplinary exploration of ethics applied to business. Lectures, readings, and case-based approach introduce the necessary background information. Examples of ethical and unethical situations are used to develop an understanding of how an efficient and effective business can also be ethical. P- Junior or senior standing.

**BEM 371. Strategic Management. (3 h)**

Focuses on the derivation of competitive advantage and sustainable, superior performance by organizations. Emphasizes the shape, character, and overall direction of the total enterprise, and the activities of managers who are responsible for achieving strategic coordination and coherence across functions and divisions. Course content includes analyzing the effects of industry and competitive environments on the firm, determining the basis upon which the firm should compete, formulating and implementing integrative action plans, and strategic leadership. Strategy analysis frameworks are applied to situations including for-profit and nonprofit organizations, diversification, global strategy, and strategic change. This is a discussion-oriented class in which principles of strategic management are applied to complex case studies. P-(all majors) BEM 211, 221 and FIN 231. P or C-(all majors) BEM 241. P-(BEM majors only) BEM 287, 389.

**BEM 372. Strategic Management in Entrepreneurial Firms. (3 h)**

Core foundational concepts in strategic management are critically examined in the context of entrepreneurial firm settings. Emphasis is placed on applying principles of competitive analysis and strategic planning using case studies of startups, fast-growth firms, young firms in rapidly-changing industries, firms confronting early organizational life cycle problems, and new ventures seeking to expand internationally. Unique strategy issues confronted by new venture and by firms operating in electronic commerce, technology, and other fast-paced industries will be considered. This is a discussion-oriented class in which principles of strategic management are applied to complex case studies. P (All majors)-BEM 211, 221 and FIN 231. P or C-BEM 241. P-(BEM majors only)-BEM 287 and BEM 389.

**BEM 375. Contemporary Issues in Business and Foundations of Capitalism. (3 h)**

Explores contemporary business issues such as corporate social responsibility, government regulation of business, health care and/or tax policy implications for business, stakeholders versus stockholders, and sources of economic development in less-developed nations. To do so we examine the foundations of capitalism its moral and intellectual underpinnings, the principal arguments that challenge and support capitalism and free markets, and the obligations of free institutions in society. This will be accomplished by reading a combination of novels, the work of leading political economists who have shaped generations of thinking at the highest levels of government and academia about capitalism, economics and free markets and recently-published works by business and political leaders.

**BEM 377. Entrepreneurship. (3 h)**

Exposes students to multiple facets of entrepreneurship and teaches about creating new ventures in a very hands-on fashion. A broad range of ideas, readings, and cases enable students to understand the ambiguous and highly-charged environment of entrepreneurship, the contribution of entrepreneurial endeavors to business and society, and the characteristics of successful new venture startups. Focuses on three areas that define successful entrepreneurial pursuit of new for-profit, non-profit, and social enterprise initiatives: recognizing opportunity, management, and assembling resources. The completion of a team-based business plan for a new venture is usually required. Guest speakers present their views of entrepreneurial organizations based on real-world experiences- startup, financing, legal, transition, failure, etc. P-BEM 211, 221, and FIN 231, or POI.

**BEM 381. Individualized Reading and Research. (1-3 h)**

Directed study in specialized areas of business. P- POI.

**BEM 382. Management in the Visual Arts. (3 h)**

Taught by faculty from the School of Business and the Art Department. It provides both art and business students with the essential skills, pragmatic experiences, and a conceptual framework for understanding the role the visual arts play within the national and international economies. Students receive preparation for involvement in art galleries, auction houses, museums, and publishing, as well as for contributions to various boards and organizations that commission or purchase works of art. The marketing, financial, legal, and strategic aspects of art management are explored. Emphasis is on dialogue between art majors and business majors enrolled in the course. Field study in at least one major metropolitan area for the purpose of gaining intensive exposure to professional arts management is required, but the majority of travel costs are covered by the University. One half of enrollment spaces are available for students who have been accepted into the School of Business; the remaining half of the spaces are available to declared art majors with junior standing or higher. Also listed as ART 297. P-Junior or senior standing and POI.

**BEM 383. Seminar in Negotiations. (3 h)**

Focuses on the process of conducting successful negotiations in a business setting. Introduces concepts, theories, and analytical frameworks that underlie common negotiation techniques. Practical skills are emphasized through negotiation exercises and the analysis of contemporary business situations. Lectures, discussions, and role plays are among the instructional methods used. P- Senior status or POI.

**BEM 384. Design-Thinking and High-Performance Teams. (3 h)**

In this experiential class, we study the evolution of high-performance teams in design-thinking environments. At its core, design thinking is an approach to innovative problem solving that balances art, science, and business perspectives in realistic and highly impactful ways. In this course we develop the ability to participate in and lead high-performance teams within a design-thinking environment. The course involves an action-learning project that applies the perspectives of anthropology, history, political science, communication, and psychology, among others, in solving a real-world problem. Also listed as ENT 384.

**BEM 385. Why Business. (3 h)**

Business is about the creation of value in society, but the goals of the noble profession of business are often deemphasized. This course examines the philosophical, legal, and economic foundations of business and the ways the institutions of our society challenge and support the creation of value. Students will explore their place in this system as professionals who steward the broader system of business. P-Junior or senior standing; or POI.

**BEM 386. Selected Topics in Real Estate. (1.5 h)**

Examines the most pertinent topics in real estate. Focuses on subjects such as ownership and interest, the legal aspects of real estate, real estate finance and real estate trends. P-Senior standing and POI.

**BEM 388. Management Simulation. (1.5 h)**

Designed to integrate the functional areas of business through the use of an experiential simulation exercise. The simulation that provides the foundation of this course requires students to draw on their learning from previous courses in operations, marketing, finance, human resource management, information systems and strategic management. Students are organized into cross-functional management teams, and the teams are required to make plans for a business enterprise operating in a competitive environment, make critical managerial decisions in response to real-world situations that arise, and present their work to a faculty committee. P-Senior standing and BEM 211, BEM 221, BEM 241, BEM 251, and FIN 231; P or C-BEM 371 or 372 (MBU majors are exempt from strategy requirement).

**BEM 389. Management Internship. (3 h)**

The internship is a supervised learning experience that applies business coursework to an actual work environment for academic credit. The internship is subject to approval and consists of both academic and on-the-job learning components. P- Acceptance as a BEM major and completion of 15 hours of School of Business credit which must include BEM 211 and 287.

**BEM 391. Global Business Studies. (3 h)****BEM 392. Seminar in Mathematical Business Analysis. (3 h)**

Provides mathematical business majors with a forum where they can actually see how the mathematical, statistical and computer techniques can be brought to bear on many business problems in a variety of business functions. Emphasis is more on studying the process of modeling and implementation issues of the solutions and less on the algorithmic edetails. Critical and reflective thinking about models and translation of their results into management action that will add value to a process or a system is a major objective. Another objective of the seminar is to foster group work and the sharpening of presentation skills. P-BEM 211, 221, 241, FIN 231, MST 253, 353, and STA 212.

**BEM 393. Principles of Risk Management. (3 h)**

Intended to assist students in identifying and analyzing risk and in managing it through a variety of mechanisms. Techniques such as loss control, risk retention, and risk transfer are discussed. This course also includes professional risk management field work, under the direction of a faculty member. Students will gain relevant practical experience that is integrated with casework and risk management theory. Emphasis is on analysis, decision-making in a global environment, teamwork, written and verbal skills, presentation skills, and using technology to solve problems. P-Junior or senior standing and POI.

## Finance (FIN)

**FIN 203. Applied Quantitative Analysis for Finance. (3 h)**

Provides the basic mathematical and statistical tools needed for the study of applied finance. Topics: multiple regression, analysis of residuals and F-tests; analysis of time-series data; risk, preference and utility theory; stochastic processes; and applied optimization. P-BEM 201 and FIN 231 with a C or better; C-FIN 232; or POI.

**FIN 231. Principles of Finance. (3 h)**

Survey course examining the fundamentals of financial decision-making and including topics such as the time value of money, security valuation (corporate debt and equity pricing), risk and return, financial statement analysis, capital budgeting, and the cost of capital. Financial decision-making is developed within the context of domestic and international institutions and markets. P-ACC 111, P or C-ECN 150.

**FIN 232. Intermediate Finance. (3 h)**

Required for all finance majors and is intended as preparation for upper level electives. It provides an examination of financial decision-making under uncertainty stressing practical applications of technology. Topics include yield curves and interest rate risk; the uses and risks of derivative securities; capital structure and the impact of leverage; statistical estimation of the cost of capital for the firm and its projects; financial statement forecasting (pro forma); and discounted cash flow valuation of the firm. The course incorporates electronic spreadsheet applications (Excel) in problem solving, statistics and financial modeling. P-BEM 201 and FIN 231 with C or better; C-FIN 203; or POI.

**FIN 233. Equity Investments. (3 h)**

The Equity Investments course exposes students to equity research, portfolio formation and analysis, equity security valuation, and stock selection for portfolio construction. The course uses accounting, fundamental analysis and a discounted cash flow framework to value equity securities. P-FIN 203 and FIN 232 with a C or better. May be taken as a co-requisite with FIN 203 and/or FIN 232 with POI.

**FIN 234. International Finance. (3 h)**

The course examines the impact of international financial economics on markets and the management of both domestic and multinational firms. Emphasis is placed upon institutional and environmental factors influencing trade, foreign exchange, and capital acquisition and allocation. P-FIN 203 and FIN 232 with a C or better; or POI.

**FIN 235. Selected Topics in Finance. (3 h)**

Identifies the most current topics and practices in the dynamic global financial industry and covers them in detail; may also explore a more narrow finance topic in depth. Focuses on the application of leading-edge concepts and ideas in the financial services and/or banking industries. A seminar approach requires active student participation in the identification, elaboration and discussion of course materials. Oral and written skills are emphasized. P - FIN 203 and FIN 232 with a C or better. May be taken as co-requisite with FIN 203 and/or FIN 232 with POI.

**FIN 236. Private Equity. (3 h)**

Covers the full life cycle of private equity. The course covers buyout, venture capital and growth capital investing, both from an investing and managerial point of view. While being relevant to students interested in becoming private equity professionals, the course is also applicable to those who might interact with private equity firms from the view of being an investment banker, a funding source, a participant in acquisitions or divestitures (such as a seller or management partner) or as an institutional investor in private equity funds. P - FIN 203 and FIN 232 with a C or better; or POI.

**FIN 237. Financial Markets and Institutions. (3 h)**

The course provides students with an understanding of the structure and functioning of US and international financial markets. Topics covered in the class: banking theory, the roles of traditional and non-traditional financial intermediaries, the impact of securitization, international financial competition, financial system stability and financial regulation. P-FIN 203 and FIN 232 with a C or better; or POI.

**FIN 238. Financial Modeling. (3 h)**

This course is intended to strengthen your knowledge in Finance and provide you with practical skills for implementing financial models in a spreadsheet. While the specific tool used in this class is Microsoft Excel, the techniques can be generalized and applied to various implementation tools. The subject matter is a blend of Corporate Finance and Investments with a heavier weighting placed on Corporate Finance.

**FIN 331. Corporate Finance. (3 h)**

The course explores the practical application of corporate financial theory. The strategic financial decisions of firms are analyzed with regard to capital budgeting, capital structure, dividend policy, seasoned equity offerings, rights issues, the application of option theory to corporate finance strategy, and real options. P-FIN 203 and 232 with a C or better; or POI.

**FIN 332. Banking and Investment Banking. (3 h)**

Examines corporate restructuring and how commercial and investment banks facilitate the transactions. Investigates the impact of strategic financial alterations on the performance of the firm's assets. Examines IPO's, mergers and acquisitions, divestitures, spin-offs, and capital acquisition. Focuses on the application of financial modeling and the use of discounted cash flow valuation to analyze managerial decisions under uncertainty. P-FIN 203 and 232 with a C or better; or POI.

**FIN 333. Advanced Finance. (3 h)**

Focuses on maximizing the firm's market value in a dynamic environment by exploring the interplay between (1) its operating and strategic decisions, (2) the evaluation of the firm and its strategies by the investment community, and (3) the functioning of capital markets and economies within which the firm operates. The course integrates results from relevant research with the effective practice of financial management by business professionals. P –FIN 203 and FIN 232 with a C or better, or POI.

**FIN 335. Financial Derivatives. (3 h)**

Explores the pricing and uses of derivatives; the role of market participants; how market structures and practices facilitate risk transfer; and the uses of derivatives for hedging. Covers futures/forwards, options, and swaps, the three most important types of financial derivatives. P-FIN 203 and 232 with a C or better; or POI.

**FIN 336. Fixed Income and Financial Engineering. (3 h)**

Provides an introduction to interest rate risk management, the nature of fixed income markets, the structure and underlying economic rationale for various structured products including collateralized debt obligations, and the role of financial engineering in fixed income markets and risk management. P-FIN 203 and 232 with a C or better; or POI.

**FIN 338. Real Estate Finance. (3 h)**

Focuses on concepts and techniques used to value and finance income-producing property investments. Provides students a critical perspective for making financial decisions about real estate. The nature of real estate risk, at both the level of the individual project and the investment portfolio. Class sessions will rely on case discussions as we consider how economic characteristics of the property and the local market, motives of different actors, and institutional arrangements interact to shape decision-making in real estate. P-FIN 203 and 232 with a C or better; or POI.

**FIN 381. Individualized Reading and Research. (1-3 h)**

Directed study in specialized areas of finance. P-POI.

## Faculty

**Sisel Distinguished Dean** Charalambos L. Iacovou

**Vice Dean of Faculty** Michelle Roehm

**Associate Dean of the Undergraduate Program** Kenny Herbst

**Associate Dean of the Master of Science in Management Program** Norma R. Montague

**Associate Dean of MBA Programs** Timothy R. Janke

**Assistant Dean of MBA Programs** Mark Johnson

**Associate Dean of Analytics Programs** Jeffrey D. Camm

**Dale K. Cline Associate Dean for Accountancy** Mark Evans

**F. M. Kirby Chair in Business Excellence and Professor** Charalambos L. Iacovou

**J. Tylee Wilson Chair in Business Ethics and Professor** Sean T. Hannah

**John B. McKinnon Professor** Ron L. Thompson

**Inmar Presidential Chair in Business Analytics and Professor** Jeffrey D. Camm

**David C. Darnell Presidential Chair in Principled Leadership and Professor** Derek R. Avery

**Kemper Professor in Business** J. Kline Harrison

**D. Wayne Calloway Professor in Accounting** Jack E. Wilkerson

**Delmer P. Hylton Professor of Accountancy** Jonathan E. Duchac

**C. C. Hope Chair of Financial Services and Law and Professor** Steve H. Nickles

**Thomas S. Goho Chair in Finance and Professor** Ajay Patel

**Thomas H. Davis Chair in Business and Professor** Haresh Gurnani

**Thomas K. Hearn, Jr. Professor in Finance** Robert C. Nash

**Sisel Faculty Professor** Pat H. Dickson

**Peter C. Brockway Chair of Strategic Management and Professor** Michelle Roehm

**Benson Pruitt Professor of Business** Sherry E. Moss

**Thomas W. Smith Presidential Chair in Business Ethics and Professor of Economics** James R. Otteson

**Professors** S. Douglas Beets, Frederick H. deB. Harris, James A. Narus, Scott M. Shafer, Julie H. Wayne, G. Page West III

**Teaching Professors** William L. Davis, Mark Johnson, Alireza Lari, Deon Strickland

**Executive in Residence and Adjunct Professor of the Practice** Peter Brockway

**Adjunct Professors** Dan Fogel, Michael French, Joe Mazzola, Steve Powell

**AT&T Faculty Fellow and Associate Professor** Gordon E. McCray

**James Farr Faculty Fellow and Associate Professor** John Sumanth

**Sisel Faculty Fellow & Associate Professor** Kenny Herbst

**Wall Street Partners Fellow and Associate Professor** Bill Marcum

**Associate Professors** George R. Aldhizer III, Terry A. Baker, Derrick

S. Boone, Holly H. Brower, Thomas G. Canace, Anna Cianci, Lisa

Dragoni, Mark E. Evans, Jai Li, Patrick R. McMullen, Norma R. Montague,

Jonathan P. Pinder, Michelle D. Steward, Ya-Wen Yang

**John Hendley Fellow & Associate Teaching Professor** Matthew T. Phillips

**Associate Teaching Professors** Anthony Amoruso, Phil Anderson, Tonya Balan, Chris Smith, Brian Young

**Adjunct Teaching Professor** Barbara Prestwood

**Assistant Professors** Jiaru Bai, Kenneth D. Ford, Philip Howard, Lauren Reid, Stephan Shipe, Carolina Salge

**Adjunct Assistant Professor** Ben Grannan

**Professors of the Practice** Tom Aleman, Roger L. Beahm, Timothy R.

Janke, Benjamin T. King, Martin Malloy, Cynthia Tessien, Amy Wallis,

James B. Willis

**Associate Professors of the Practice** Susan I. Langlitz, Denis Maier

**Adjunct Professors of the Practice** Michael Ames, Bob Fly, Robert

Gemmell, Jason Goddard, Zachary Hartsell, Sobia Hussaini, Ged King,

Deron Mabe, Brian McKay, Shannon McKeen, Peter Mitchell, Michael

Travis, Scott Warfield, Pete Woods

**Visiting Professors of the Practice** Ann Bliss, John Butler, Andrew

Jarachovic, Gary Tsarsis

**Visiting Associate Professor of the Practice** Whitney Simpson

**Visiting Assistant Professor** Megan Regan

**Visiting Assistant Professor of the Practice** John Karabelas

**Visiting Assistant Teaching Professor** Ali Zeytoon-Nejad

**Affiliate Professor of the Practice** Jon Clift

**Adjunct Instructors** Vern Scoggins

**Affiliate Instructor** Ian Taplin

**Senior Lecturer** J. Bren Varner

**Adjunct Senior Lecturer** Ben Baker

**Lecturer** Pete Brewer, Jennifer Hudson

**Adjunct Lecturer** Thad Lewallen, Paula Payton

# Accountancy, B.S.

## Requirements

The School of Business' separate accounting accreditation through AACSB International requires that the School establish a separate statement of mission for its accountancy program complementary to the School's basic mission statement provided. Accordingly, the mission and values of the School's accountancy program are as follows:

The mission of the Wake Forest accountancy program is to enhance business, society, and the accountancy profession through our teaching and scholarship. We value: an environment that promotes thoughtful reflection and a high level of face-to-face interaction; intellectual curiosity, including a passion for the study of business; teaching excellence; challenging academic standards consistent with high-quality students; the creation and dissemination of knowledge; honor, integrity, and respect for the ethical and legal foundations of the accountancy profession; and strong relationships with alumni, recruiters, and other members of the accountancy profession.

The accountancy program includes both the baccalaureate and master's programs. Students who major in either accountancy or finance (FIN-M) at the baccalaureate level may apply for admission to the MSA program during their junior year (see MSA Program Admissions). The coursework, combined with the opportunity to complete a professional internship, provides students with a solid foundation in the concepts, principles, and practices of accountancy and business.

Requires the following courses:

Code	Title	Hours
ACC 111	Introductory Financial Accounting	3
ACC 211	Intermediate Accounting I	4
ACC 212	Intermediate Accounting II	4
ACC 221	Introductory Management Accounting	3
ACC 237	Taxes and Their Role in Business and Personal Decisions	3
ACC 351	Accounting Information Systems	3
ACC 352	Introduction to Auditing	3
ACC 390	Professional and Ethical Responsibilities of Accountants	1.5
ACC 392	Professional and Ethical Responsibilities of Accountants - Internship Practicum	1.5
or ACC 393	Professional and Ethical Responsibilities of Accountants - Case Study Practicum	
BEM 201	Quantitative Analysis I	3
BEM 211	Organizational Behavior	3
BEM 221	Principles of Marketing	3
BEM 241	Production and Operations Management	3
BEM 251	Management Information Systems	3
BEM 261	Legal Environment of Business	3
BEM 371	Strategic Management	3
or BEM 372	Strategic Management in Entrepreneurial Firms	
BEM 388	Management Simulation	1.5
FIN 231	Principles of Finance	3
FIN 232	Intermediate Finance	3
ECN 150	Introduction to Economics	3

MST 111	Calculus with Analytic Geometry I	4
or MST 112	Calculus with Analytic Geometry II	

ACC 391 is strongly recommended.

ACC 311 and ACC 321 are strongly recommended for students who do not intend to pursue the MSA degree.

## Honors

School of Business students (exclusive of mathematical business majors) with a grade point average of at least 3.0 on all college work and who are eligible for membership in Beta Gamma Sigma are invited to apply for admission to the honors program in business and accountancy. A project, paper, or readings, and an oral presentation or examination are required. Those who successfully complete the requirements specified by the School graduate with the designation "Honors in Accountancy," "Honors in Business and Enterprise Management," or "Honors in Finance." For additional information, interested students should consult a member of the faculty of the Wake Forest School of Business.

## Business and Enterprise Management, B.S.

### Requirements

The business and enterprise management major in the School of Business combines a rigorous and high-quality curriculum with real-world applications. The degree program preserves a general business curriculum while simultaneously allowing students to gain greater depth in a number of specialty areas. The program emphasizes the development of strong leadership and critical thinking skills, enabling students to pursue careers in management in a wide range of fields.

Requires the following courses:

Code	Title	Hours
ACC 111	Introductory Financial Accounting	3
ACC 221	Introductory Management Accounting	3
BEM 201	Quantitative Analysis I	3
BEM 202	Quantitative Analysis II *	3
BEM 211	Organizational Behavior	3
BEM 221	Principles of Marketing	3
BEM 241	Production and Operations Management	3
BEM 251	Management Information Systems	3
BEM 261	Legal Environment of Business	3
BEM 287	Professional Development Workshop Series A	1.5
BEM 318	Calloway Leadership Experience	3
BEM 365	Ethics and Business Leadership	3
BEM 371	Strategic Management	3
or BEM 372	Strategic Management in Entrepreneurial Firms	
BEM 388	Management Simulation	1.5
BEM 389	Management Internship	3
FIN 231	Principles of Finance	3
ECN 150	Introduction to Economics	3
MST 111	Calculus with Analytic Geometry I	4
or MST 112	Calculus with Analytic Geometry II	
Select 9 hours in a pre-approved concentration area **		9

Marketing
International Business
New Business Development
Management Consulting
Other Elective Options

\* Or 3 hours of advanced quantitative methods chosen from a pre-approved list.

\*\* Concentration areas must include at least one BEM elective course or INS 260.

## Honors

School of Business students (exclusive of mathematical business majors) with a grade point average of at least 3.0 on all college work and who are eligible for membership in Beta Gamma Sigma are invited to apply for admission to the honors program in business and accountancy. A project, paper, or readings, and an oral presentation or examination are required. Those who successfully complete the requirements specified by the School graduate with the designation "Honors in Accountancy," "Honors in Business and Enterprise Management," or "Honors in Finance." For additional information, interested students should consult a member of the faculty of the Wake Forest School of Business.

## Finance, B.S.

### Requirements

The finance major in the School of Business prepares students to think analytically and critically by exposing them to theory and its real-world applications. Finance majors typically pursue careers in corporate finance and financial services, including portfolio management, investment and commercial banking, and financial consulting. The major emphasizes a strong concentration in finance and quantitative analysis and is supported by accounting concepts beyond the introductory level.

Requires the following courses:

Code	Title	Hours
ACC 111	Introductory Financial Accounting	3
ACC 211	Intermediate Accounting I	4
ACC 212	Intermediate Accounting II	4
ACC 221	Introductory Management Accounting	3
BEM 201	Quantitative Analysis I	3
BEM 211	Organizational Behavior	3
BEM 221	Principles of Marketing	3
BEM 241	Production and Operations Management	3
BEM 251	Management Information Systems	3
BEM 261	Legal Environment of Business	3
BEM 371	Strategic Management	3
or BEM 372	Strategic Management in Entrepreneurial Firms	
BEM 388	Management Simulation	1.5
ECN 150	Introduction to Economics	3
FIN 203	Applied Quantitative Analysis for Finance	3
FIN 231	Principles of Finance	3
FIN 232	Intermediate Finance	3
MST 111	Calculus with Analytic Geometry I	4
or MST 112	Calculus with Analytic Geometry II	

Select a minimum of 9 hours of the following:	9
FIN 233	Equity Investments
FIN 234	International Finance
FIN 235	Selected Topics in Finance
FIN 236	Private Equity
FIN 237	Financial Markets and Institutions
FIN 331	Corporate Finance
FIN 332	Banking and Investment Banking
FIN 333	Advanced Finance
FIN 335	Financial Derivatives
FIN 336	Fixed Income and Financial Engineering
FIN 338	Real Estate Finance

## Honors

School of Business students (exclusive of mathematical business majors) with a grade point average of at least 3.0 on all college work and who are eligible for membership in Beta Gamma Sigma are invited to apply for admission to the honors program in business and accountancy. A project, paper, or readings, and an oral presentation or examination are required. Those who successfully complete the requirements specified by the School graduate with the designation "Honors in Accountancy," "Honors in Business and Enterprise Management," or "Honors in Finance." For additional information, interested students should consult a member of the faculty of the Wake Forest School of Business.

## Mathematical Business, B.S.

### Requirements

Students interested in pursuing this joint major must be granted formal admission to the program upon application to the School of Business' Committee on Admissions, Continuation, and Scholarships. To graduate from Wake Forest University with a major in mathematical business, the student must satisfy the requirements for graduation of both the Department of Mathematics and Statistics and the School of Business. This interdisciplinary program, consisting of no more than 51.5 hours, prepares students for careers in business with a strong background in mathematics. The major has the following course requirements:

Code	Title	Hours
<b>Required Major Courses</b>		
MST 113	Multivariable Calculus	4
MST 121	Linear Algebra I	4
MST 253	Operations Research	3
STA 212	Statistical Models	3
MST/STA 353	Probability Models	3
or STA 310	Probability	
ACC 221	Introductory Management Accounting	3
BEM 211	Organizational Behavior	3
BEM 221	Principles of Marketing	3
BEM 241	Production and Operations Management	3
BEM 251	Management Information Systems	3
BEM 261	Legal Environment of Business	3
BEM 388	Management Simulation	1.5
BEM 392	Seminar in Mathematical Business Analysis	3

FIN 231	Principles of Finance	3
Select a minimum of two additional courses *		
<b>Prerequisites for Admission</b>		
ACC 111	Introductory Financial Accounting	3
ECN 150	Introduction to Economics	3
MST 112	Calculus with Analytic Geometry II	4
STA 212	Statistical Models	3
<b>Recommended Electives</b>		
BEM 383	Seminar in Negotiations	3
BEM 371	Strategic Management	3
or BEM 372	Strategic Management in Entrepreneurial Firms	
CSC 111	Introduction to Computer Science	8
& CSC 112	and Fundamentals of Computer Science **	
STA 362	Multivariate Statistics **	3
STA 363	Introduction to Statistical Learning **	3

\* Chosen from among mathematics, statistics, economics, and business, with at least one being a mathematics or statistics course (chosen from 3-hour courses at the 300-level or higher), excluding MST 381.

\*\* CSC 111 and/or CSC 112 and STA 362 and/or STA 363 are strongly recommended electives for the major.

## Honors

Mathematical business majors with a grade point average of at least 3.0 on all college work and a minimum grade point average of 3.5 in the major are invited to apply for admission to the honors program in mathematical business. A project, paper, or readings, and an oral presentation or examination are required. Those who successfully complete the requirements specified by the School and the Mathematics Department graduate with the designation "Honors in Mathematical Business." For additional information, interested students should consult a member of the faculty of the Mathematics Department or the Wake Forest School of Business.

## Undergraduate Business Program Admission

Admission to the School of Business undergraduate program is by formal application, and applicants are screened by the School's Committee on Admissions, Continuation, and Scholarships. Before being considered for admission to the School of Business, the applicant first must have been admitted to Wake Forest University. Minimum requirements for admission to the Wake Forest School of Business undergraduate program are as follows:

1. Completion of 49 hours with a cumulative WFU grade point average of 2.85.
2. Completion of the following courses with a minimum grade of C in each course:

Code	Title	Hours
ECN 150	Introduction to Economics	3
MST 111	Calculus with Analytic Geometry I	4
or MST 112	Calculus with Analytic Geometry II	
ACC 111	Introductory Financial Accounting	3
BEM 201	Quantitative Analysis I **	3

\* MST 112 for the mathematical business major.

\*\* STA 212 for the mathematical business major.

3. Based on availability, one additional School of Business course:

Code	Title	Hours
ACC 221	Introductory Management Accounting	3
BEM 211	Organizational Behavior	3
BEM 221	Principles of Marketing	3
BEM 251	Management Information Systems	3
BEM 261	Legal Environment of Business	3
FIN 231	Principles of Finance	3

Students who have not fully met the above requirements may still apply while requirements are in progress. The number of students who can be accommodated is limited. Meeting the minimum requirements is not a guarantee of admission. Therefore, the School of Business reserves the right to deny admission or readmission to any student even though he or she meets the minimum requirements. Readmission to the Wake Forest University School of Business undergraduate program must be approved by the Committee on Admissions, Continuation, and Scholarships but first requires readmission to Wake Forest University, requirements for which are provided in this bulletin.

## MSA Program Admission

Admission to the MSA program requires undergraduate business school students who have completed ACC 211 to submit an application to the MSA program during their third year of study. The required application components include the online application and an unofficial transcript.

Students who are currently enrolled in the School of Business's undergraduate accounting or finance programs are automatically accepted into the MSA program provided they maintain a 3.0 GPA in their major and earn no less than a C+ in the following accounting courses: ACC 111, ACC 211, ACC 212, ACC 221 and ACC 237. All application components are due by December 1 (of the third year of study).

Additional information may be found at <http://business.wfu.edu/masters-in-accounting/>.

## Transfer of Credit from Other Schools

It is expected that most work toward degrees offered by the Wake Forest University School of Business will be taken in the School of Business.

For students wishing to transfer credit from other schools towards their major, the following general guidelines apply:

1. All approvals for transfer credits from other institutions to the School of Business must be:
  - a. approved prior to admission into the School and will be limited to 6 hours for transfer students
  - b. pre-approved before such courses are taken by non-transfer students
2. Courses taken at AACSB accredited schools will be considered for transfer credit per (1) above. Transfer credit for all courses taken at schools not accredited by the AACSB generally requires a validation exam in order to be considered for transfer credit.
3. Study abroad transfer credit will be considered per (1) above for coursework taken through international programs sponsored by AACSB accredited schools or offered by select universities or programs approved by the School of Business faculty. Courses taken



through international programs not meeting these qualifications will require a validation exam in order to be considered for transfer credit [per (1) above].

4. Courses passed at another school with the minimum passing grade at that school may not be transferred.
5. No work in courses from two-year schools will be accepted for major credit.
6. Courses taken elsewhere in subjects not offered at the School of Business will not necessarily count toward the hours required in the School of Business.
7. A maximum of two courses (6 hours) may be transferred after admission into the School of Business (including any approved economics course counting toward the major).
8. Students earning 6 or more hours of School of Business credit through the Wake Forest Barcelona Program and the Wake Forest London Program may not also transfer credit from programs offered by institutions other than the Wake Forest School of Business.
9. Students entering the School of Business from Wake Forest College must take ACC 111 within the School of Business. Students transferring into the School of Business from another university must take a validation examination for ACC 111 to be eligible for transfer credit.

Students from Wake Forest College (non-School of Business majors) wishing to transfer business or accounting courses taken at other institutions towards credit as general electives in the College may do so upon review of that course's description in the school's catalog (and in some cases review of the syllabus for that course).

## Requirements for Continuation

In addition to the requirements outlined in the Procedures section of this bulletin, a student must be academically responsible and must show satisfactory progress toward completing the requirements for the degree. The administration of the Wake Forest School of Business notifies the student if satisfactory progress is not being made and, after consultation with the Committee on Admission, Continuation, and Scholarships, decides if the student may continue as a major in the School of Business.

## Requirements for Graduation

The Wake Forest School of Business confers the bachelor of science degree with a major in accountancy, business and enterprise management, finance, or mathematical business. The requirements for completion of the degrees are those in effect at the time the student enters the School of Business. No courses in the undergraduate School of Business can be taken pass/fail unless they are offered on that basis. In addition, the POI designation for any course does not override any program requirements for the major.

In addition to the courses stipulated, the student in business and accountancy also must meet the following requirements for graduation:

1. *a minimum of 120 hours, including the basic and divisional requirements established by Wake Forest College*
2. *a minimum grade point average of 2.0 on all work attempted at Wake Forest*
3. *a minimum grade point average of 2.0 on all work attempted at other institutions*
4. *an overall 2.0 grade point average in all courses required in the major.*

## Beta Gamma Sigma, National Honor Society

Membership in Beta Gamma Sigma is the highest national recognition a student can receive in an undergraduate program in accounting or business. To be eligible for membership, a student must rank in the top ten percent of the junior or senior class.

# WAKE FOREST COLLEGE FACULTY

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*Date following name indicates year of appointment. Listings represent those faculty teaching either full or part-time during the fall 2020 and/or spring 2021.*

**Irma V. Alarcón** (2005)

Associate Professor of Spanish and Italian  
BA, Universidad de Concepción (Chile); MA, PhD, Indiana University.

**Jane W. Albrecht** (1987)

Professor of Spanish and Italian  
BA, Wright State University; MA, PhD, Indiana University.

**Guillermo Alesandroni** (2020)

Visiting Assistant Professor  
BS, National University of Rosario; MS, University of Illinois at Chicago; PhD, Oklahoma State University.

**Rebecca W. Alexander** (2000)

F.M. Kirby Family Faculty Fellow and Professor of Chemistry  
BS, Delaware; PhD, University of Pennsylvania.

**Lucy Alfrd** (2020)

Assistant Professor of English  
BA, University of Virginia; Phd, Stanford University; PhD, University of Aberdeen.

**Edward E. Allen** (1991)

Professor of Mathematics  
BS, Brigham Young University; MA, PhD, University of California (San Diego).

**Justin Allman** (2020)

Assistant Teaching Professor  
BS, Georgia Institute of Technology; MA, MAEd, Wake Forest University; PhD, University of North Carolina at Chapel Hill.

**Sarra Alqahtani** (2019)

Assistant Professor of Computer Science  
BS, MS, King Saud University; PhD, The University of Tulsa.

**Jacque L. Amoureux** (2011)

Associate Teaching Professor of Politics and International Affairs  
BS, MPA, Boise State University; MA, University of Iowa; PhD, Brown University.

**Paul R. Anderson** (1990)

Professor of Physics  
BS, University of Wisconsin-Madison; MA, PhD, University of California (Santa Barbara).

**David J. Anderson** (1992)

Professor of Biology  
BA, Denison University; MS, University of Michigan; PhD, Pennsylvania University.

**T. Michael Anderson** (2010)

Associate Professor of Biology  
BS, Oregon State University; PhD, Syracuse University.

**Sharon G. Andrews** (1994)

Professor of Theatre

BA, UNC-Chapel Hill; MFA, UNC-Greensboro.

**Elizabeth Mazza Anthony** (1998)

Associate Teaching Professor of French Studies  
BA, Duke University; MA, PhD, UNC-Chapel Hill.

**Diana R. Arnett** (2014)

Associate Teaching Professor of Biology  
BS, MA, Youngstown State University; PhD, Kent State University.

**Lisa Ashe** (2016)

Part-time Assistant Professor of Art  
BS, University of Tennessee; MA, PhD, University of Virginia.

**Miriam A. Ashley-Ross** (1997)

Professor of Biology  
BS, Northern Arizona University; PhD, University of California (Irvine).

**Robert J. Atchison** (2010)

Associate Professor of Communication and Director of Debate  
BA, MA, Wake Forest University; PhD, University of Georgia.

**Alison Atkins** (2013)

Assistant Teaching Professor of Spanish and Italian  
BA, Wake Forest University; MA, PhD, University of Virginia.

**Emily A. Austin** (2009)

Assistant Professor of Philosophy  
BA, Hendrix College; PhD, Washington University (St. Louis).

**R. Scott Baker** (2001)

Associate Professor of Education  
BA, Evergreen State College; MA, Tufts University; PhD, Teacher's College of Columbia University.

**Duff Baker-Jarvis** (2019)

Visiting Assistant Professor  
BA, University of Colorado at Boulder; PhD, Michigan State University.

**Grey Ballard** (2016)

Assistant Professor of Computer Science and Dunn-Riley Faculty Fellow  
BS, MA, Wake Forest University; PhD, University of California Berkeley.

**Wanda A. Balzano** (2005)

Chair and Associate Professor of Women's, Gender, and Sexuality Studies  
BA, MA, University of Naples, Italy; MA, PhD, University College, Dublin.

**Adrian Bardon** (2002)

Associate Professor of Philosophy  
BA, Reed College; MA, Washington; PhD, University of Massachusetts (Amherst).

**Ilaria Bargigia** (2020)

Assistant Professor of Physics  
Msc, PhD, Polytechnic University of Milan (Italy).

**Bernadine Barnes** (1989)

Professor of Art  
BA, University of Illinois, Urbana-Champaign; MA, University of Pittsburgh; PhD, University of Virginia.

**Phillip G. Batten** (1991)

Adjunct Assistant Professor of Psychology

BA, PhD, UNC-Chapel Hill; MA, Yale University; MA, Wake Forest University.

**Brittany Battle** (2019)

Assistant Professor of Sociology  
BA, University of Delaware; MA, PhD, Rutgers University, New Brunswick.

**Kristen M. Beavers** (2012)

Associate Professor of Health and Exercise Science  
BS, Cornell University; MPH, UNC-Chapel Hill; PhD, Baylor University.

**H. Kenneth Bechtel** (1981)

Associate Professor of Sociology  
BA, MA, North Dakota; PhD, Southern Illinois University (Carbondale).

**Jack Bell** (2017)

Visiting Assistant Professor of English  
BA, University of Richmond; PhD, Duke University.

**Lina Benabdallah** (2017)

Assistant Professor of Politics and International Affairs  
BA, University of Batna, Algeria; MA, PhD, University of Florida.

**Margaret C. Bender** (2000)

Associate Professor of Anthropology  
BS, Cornell; MA, PhD, University of Chicago.

**Kenneth S. Berenhaut** (2000)

Professor of Mathematics  
BA, MS, University of Manitoba (Canada); MA, PhD, University of Georgia.

**Michael J. Berry** (1985)

Professor of Health and Exercise Science  
BS, Jacksonville State University; MA, Southeastern Louisiana University; PhD, Texas A&M University.

**Deborah L. Best** (1972,1978)

William L. Poteat Professor of Psychology  
BA, MA, Wake Forest University; PhD, UNC-Chapel Hill.

**Ulrich Bierbach** (1999)

Professor of Chemistry  
MS, PhD, University of Oldenburg (Germany); MM, UNC-Greensboro.

**Laura Bilton** (2017)

Clinical Instructor  
BS, Wake Forest University; MAT, East Carolina University.

**Erin E. Binkley** (2014)

Associate Professor of Counseling  
BA, UNC-Chapel Hill; MA, Wake Forest University; PhD, Idaho State University.

**Katharine (Polly) A. Black** (2010)

Assistant Teaching Professor of Communication  
BA, Vassar College; MA, Columbia University; MBA, University of Virginia Darden School of Business; PhD, University of Birmingham UK.

**Lisa M. Blee** (2009)

Associate Professor of History  
BA, Lewis and Clark College; PhD, University of Minnesota.

**Terry D. Blumenthal** (1987)

Professor of Psychology

BS, University of Alberta (Edmonton); MS, PhD, University of California (Berkeley).

**Keith D. Bonin** (1992)

Professor of Physics and Associate Provost for Research and Scholarly Inquiry  
BS, Loyola University; PhD, University of Maryland.

**Lynn S. Book** (2005)

Teaching Professor  
BFA, Memphis College; MFA, School of the Art Institute of Chicago.

**Abbey Bourdon** (2017)

Sterge Faculty Fellow and Assistant Professor  
BA, University of Richmond; PhD, Wesleyan University .

**Rian E. Bowie** (2006)

Z. Smith Reynolds Foundation Fellow, Associate Teaching Professor  
BA, Tougaloo College; MA, Temple University; PhD, Emory University.

**Stephen B. Boyd** (1985)

Easley Professor of Religion  
BA, University of Tennessee; MDiv, Th.D., Harvard Divinity School.

**Tina M. Boyer** (2010)

Assistant Professor of German  
BA, MA, New Mexico; PhD, University of California (Davis).

**Anne Boyle** (1986)

Professor of English  
BA, Wilkes College; MA, PhD, University of Rochester.

**Anthony Bradley** (2014)

Assistant Professor of Military Science  
BS, Park University .

**Shannon T. Brady** (2018)

Assistant Professor of Psychology  
BA, Lewis & Clark College; MS, Black Hills State University; PhD, Stanford University.

**Erin Branch** (2011)

Associate Teaching Professor of English and Writing Program Administrator  
AB, Middlebury College; MA, PhD, UNC-Chapel Hill.

**R. Saylor Breckenridge** (2001)

Associate Professor of Sociology  
BA, MA, PhD, University of Arizona.

**Alexandra Brewer** (2020)

Assistant Professor of Sociology  
BA, Barnard College; MA, PhD, University of Chicago .

**Thomas Brister** (2005)

Teaching Professor of Politics and International Affairs  
BS, Georgetown University; MA, PhD, University of Virginia.

**Michaëlle L. Browsers** (2000)

Professor of Politics and International Affairs  
BA, Whitman College; MA, University of Virginia; PhD, University of Minnesota.

**Hana E. Brown** (2011)

Associate Professor of Sociology

BA, Bryn Mawr College; MA, PhD, University of California (Berkeley).

**M. Alan Brown** (2012)

Associate Professor of Education  
BA, Appalachian State University; MA, Wake Forest University; PhD,  
University of Alabama.

**Christopher Brown** (2016)

Assistant Professor of English  
BA, Georgetown University; JD, Georgetown University; MA, PhD,  
University of Maryland.

**Robert A. Browne** (1980)

Professor of Biology  
BS, MS, Dayton University; PhD, Syracuse University.

**Peter H. Brubaker** (1994)

Professor of Health and Exercise Science, Chair  
BS, East Stroudsburg University; MA, Wake Forest University; PhD, Temple  
University.

**Christy M. Buchanan** (1992)

Professor of Psychology  
BA, Seattle Pacific University; PhD, University of Michigan.

**Jennifer J. Burg** (1993)

Professor of Computer Science  
BA, Elizabethtown College; MA (English), MA (French), University of  
Florida; PhD, University of Central Florida.

**Diego Burgos** (2011)

Associate Professor of Spanish and Italian  
BA, University of Antioquia, Medellin (Colombia); MA, Pompeu Fabra  
University Institute for Applied Linguistics; PhD, Pompeu Fabra University.

**Rebeccah Byer** (2018)

Visiting Assistant Professor  
BFA, University of Illinois at Urbana-Champaign.

**Brian Calhoun** (2012)

Associate Professor of the Practice in Education  
BS, MBA, MA, Wake Forest University.

**Alan S. Cameron** (2018)

Adjunct Associate Professor of Psychology  
BA, University of North Carolina at Chapel Hill; MA, Wake Forest  
University ; PhD, University of North Carolina at Chapel Hill.

**Mollie Rose Canzona** (2015)

Assistant Professor of Communication  
BA, Salem College; MA, Emerson College; PhD, George Mason University.

**Eric D. Carlson** (1995)

Associate Professor of Physics  
BS, Michigan State University; MA, PhD, Harvard University.

**Richard D. Carmichael** (1971)

Professor of Mathematics  
BS, Wake Forest University; MA, PhD, Duke University.

**Simone M. Caron** (1991)

Professor of History and Chair of Women's & Gender Studies  
BA, Bridgewater State University; MA, Northeastern; PhD, Clark University.

**Jacqui Carrasco** (1999)

Professor of Music

BA, University of California (Los Angeles); MM, DMA, State University of  
New York (Stony Brook).

**David L. Carroll** (2003)

Professor of Physics  
BSc, North Carolina State University; PhD, Wesleyan University.

**Cheyenne Carter** (2014)

Assistant Teaching Professor of Counseling  
BA, Baylor University; MS, Tarleton State University; PhD, University of  
North Texas.

**Stewart Carter** (1982)

Wake Forest Professor and Professor of Music  
BME, Kansas; MS, Illinois; PhD, Stanford University.

**Donald R. Casares** (2017)

Assistant Professor of Counseling  
BA, Franciscan University; MA, PhD, University of Holy Cross.

**Tammy H. Cashwell** (2013)

Associate Teaching Professor of Counseling  
BS, Appalachian State University; MS, Mississippi State University; PhD,  
Mississippi State University.

**Justin Catanoso** (1993)

Professor of the Practice in Journalism  
BA, Pennsylvania State; MA, Wake Forest University.

**Amy Catanzano** (2013)

Associate Professor of English  
BA, Colorado State University; MFA, University of Iowa.

**Daniel A. Cañas** (1987)

Associate Professor of Computer Science  
BS, Tecnológico de Monterrey (Mexico); MS, Georgia Institute of  
Technology; PhD, University of Texas (Austin).

**Frederick H. Chen** (2000)

Professor of Economics  
BS, University of Wisconsin-Madison; MA, PhD, University of Chicago.

**Minghan Chen** (2019)

Assistant Professor of Computer Science  
BS, Jiangnan University; MS, Northeastern University ; PhD, Virginia  
Polytechnic Institute and State University .

**Samuel S. Cho** (2010)

Associate Professor of Physics and Computer Science  
BS, University of Maryland (Baltimore County); MS, PhD, University of  
California (San Diego).

**Sherriann Lawson Clark** (2009)

Assistant Professor of Anthropology  
BS, Pennsylvania State University; MA, PhD, American University.

**Philip B. Clarke** (2011)

Associate Professor of Counseling  
BA, Wake Forest University; MS, UNC-Greensboro; PhD, UNC-Greensboro.

**Elizabeth A. Clendinning** (2014)

Associate Professor of Music  
AB, University of Chicago; MM, PhD, Florida State University.

**Benjamin Coates** (2012)

Associate Professor of History

BA, Stanford University; MA, M. Phil, PhD, Columbia University.

**R. David Coates** (1999)

Worrell Professor of Anglo-American Studies in Politics and International Affairs  
BA, York University; PhD, Oxford University.

**Carolyn Coberly** (2020)

Visiting Assistant Professor  
BA, Cornell University ; MA, Harvard University ; PhD, University of Virginia .

**Jason Cockman** (2019)

Assistant Professor of Military Science  
BS, The Citadel.

**Daniel Cohen** (2017)

Professor of Practice and John C. Whitaker Jr. Executive Director of the Center for Entrepreneurship  
BS, Towson University; MAcc, George Washington University; PhD, Case Western Reserve University.

**Bruce Cole** (2017)

Assistant Teaching Professor of Spanish and Italian  
BA, MAT, Middle Tennessee State University.

**Veronica T. Cole** (2019)

Assistant Professor of Psychology  
BA, Wellesley College; MA, PhD, University of North Carolina at Chapel Hill.

**Guillaume Coly** (2020)

Assistant Professor of French Studies  
BA, MA, Université Cheikh Anta Diop de Dakar, Senegal; PhD, University of South Carolina.

**Christa L. Colyer** (1997)

Professor of Chemistry  
BSc, Trent University (Canada); MSc, University of Guelph (Canada); PhD, Queen's University (Canada).

**Lindsay Rae Comstock** (2008)

Assistant Professor of Chemistry  
BS, Northern Arizona University; PhD, University of Wisconsin.

**William E. Conner** (1988)

Professor of Biology  
BA, University of Notre Dame; MS, PhD, Cornell University.

**Jule M. Connolly** (1985)

Professor of the Practice of Mathematics  
BA, UNC-Chapel Hill; MEd, University of South Carolina.

**Gregory Cook** (1999)

Associate Professor of Physics  
BS, PhD, UNC-Chapel Hill.

**Rachel Corbman** (2019)

Visiting Assistant Professor of Women's, Gender, and Sexuality Studies  
PhD, Stonybrook.

**Regina J. Cordy** (2018)

Assistant Professor of Biology  
BA, University of Virginia; PhD, Harvard University.

**Allin F. Cottrell** (1989)

Professor of Economics

BA, Oxford (Merton College); PhD, Edinburgh.

**Jamie E. Crockett** (2014)

Assistant Professor of Counseling  
BA, Keene State College; MS, PhD, UNC-Greensboro.

**Earl P. Crow** (2006)

Part-time Professor of Religion and Philosophy  
BA, BD, Duke University; PhD, The University of Manchester, UK.

**Ann C. Cunningham** (1999)

Associate Professor of Education  
BA, Erskine College; MAT, PhD, University of South Carolina.

**Patricia M. Cunningham** (1978)

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Assistant Teaching Professor of Spanish and Italian  
BA, Universidad de Sonora; MA, PhD, University of Arizona.

**Nelly van Doorn-Harder** (2009)

Professor of Religion  
BA, University of Utrecht; MA, PhD, Free University of Amsterdam.

**Jessica Shade Venegas** (2009)

Assistant Teaching Professor of Spanish and Italian  
BA, Davidson College; MA, PhD, UNC-Chapel Hill.

**José Luis Venegas Caro** (2009)

Associate Professor of Spanish and Italian and Interdisciplinary  
Humanities  
MA, PhD, UNC-Chapel Hill.

**Laura Veneskey** (2013)

Assistant Professor of Art  
BA, Sarah Lawrence College; MA, PhD, Northwestern University.

**José A. Villalba** (2011)

Professor of Counseling  
BS, MEd, EdS, PhD, University of Florida.

**Amanda S. Vincent** (2016)

Assistant Professor of French Studies  
BA, College of William and Mary; MA, PhD, Pennsylvania State University.

**Alessandra Beasley Von Burg** (2006)

Associate Professor of Communication  
BA, Arizona State University; MA, PhD, University of Pittsburgh.

**Ron Von Burg** (2012)

Associate Professor of Communication and Director of Communication  
Graduate Studies  
BS, BA, Arizona State University; MA, PhD, University of Pittsburgh.

**Ana M. Wahl** (2002)

Associate Professor of Sociology  
BS, Creighton University; MA, PhD, Indiana University.

**C. William Walldorf** (2009)

Associate Professor of Politics and International Affairs  
BA, Bowdoin College; MA, PhD, University of Virginia.

**Brian M. Warren** (2011)

Associate Teaching Professor of Classical Languages

BA, Yale University; MLIS, UNC-Greensboro; PhD, Johns Hopkins  
University.

**Leigh D. Watson** (2016)

Adjunct Assistant Professor of Psychology  
BA, UNC-Chapel Hill; PhD, UNC-Greensboro.

**Lori Watson** (2019)

Teacher Scholar Postdoctoral Fellow  
BA, Emory University ; BS, Florida Atlantic University ; PhD, University of  
Georgia.

**Christian E. Waugh** (2010)

Zachary T. Smith Fellow and Associate Professor of Psychology  
BS, College of William and Mary; PhD, University of Michigan.

**Mary R. Wayne-Thomas** (1980)

Professor of Theatre and F.M. Kirby Family Faculty Fellow  
BFA, Pennsylvania State University; MFA, Ohio State University.

**Ivan Weiss** (2018)

Assistant Professor of the Practice, Journalism  
BA, Haverford College; MA, London Film School (Screenwriting), UNC-  
Chapel Hill.

**Helga A. Welch** (1993)

Professor of Politics and International Affairs  
MA, PhD, University of Munich.

**Mark E. Welker** (1987)

William L. Poteat Professor of Chemistry  
BS, UNC-Chapel Hill; PhD, Florida State University.

**John Welsh** (2018)

Assistant Teaching Professor of Spanish and Italian  
BA, University of Notre Dame; MA, PhD, Harvard University.

**Robert M. Whaples** (1991)

Hough Family Professor and Professor of Economics  
BA, Maryland; PhD, University of Pennsylvania.

**Jarrod L. Whitaker** (2005)

Professor of Religion  
BA, MA, University of Canterbury (New Zealand); PhD, University of Texas  
(Austin).

**Elisabeth Whitehead** (2012)

Associate Teaching Professor of English  
BA, St. Mary's College of Maryland; MFA, University of Iowa.

**Ulrike Wiethaus** (1991)

Professor of Religion and American Ethnic Studies  
Colloquium at Kirchliche Hochschule (Berlin, Germany); MA, PhD, Temple  
University.

**Heiko Wiggers** (2005)

Assistant Professor of German  
BA, MA, Eastern Washington University; PhD, University of Washington at  
Seattle.

**Charles Wilkins** (2006)

Associate Professor of History  
BA, Duke University; MA, Ohio State University; PhD, Harvard University.

**Betina C. Wilkinson** (2010)

Associate Professor of Politics and International Affairs

BA, Loyola University; MA, PhD, Louisiana State University.

**Patricia K. Willis (2007)**

Part-time Professor of Women's, Gender, and Sexuality Studies  
BA, East Carolina University; MA, Florida State University; MA, PhD, State University of New York (Albany).

**Eric Wilson (1998)**

Thomas H. Pritchard Professor of English  
BA, Appalachian State University; MA, Wake Forest University; PhD, The Graduate Center of the City University of New York.

**Lamar Wilson (2019)**

Assistant Professor of English  
BS, Florida A&M University ; MFA, Virginia Polytechnic and State University ; PhD, University of North Carolina Chapel Hill.

**Stephen M. Winter (2020)**

Assistant Professor of Physics  
Bsc, PhD, University of Waterloo.

**Guy Witzel (2018)**

Visiting Assistant Professor of English  
BA, University of Wisconsin Oshkosh; MA, Ohio State University ; PhD, State University of New York at Buffalo .

**Nicholas Wolters (2016)**

Assistant Professor of Spanish and Italian  
BA, York College; MA, University of Delaware; PhD, University of Virginia.

**John H. Wood (1985)**

Reynolds Professor of Economics  
BS, Ohio; MA, Michigan State University; PhD, Purdue University.

**Sharon K. Woodard (1998)**

Associate Professor of the Practice of Health and Exercise Science  
BS, Central Michigan University; MS, Wake Forest University.

**Kimberly T. Wortmann (2018)**

Assistant Professor of Religion  
BA, Macalaster College; MTS, Harvard Divinity School; PhD, Harvard University.

**David Wren (2013)**

Associate Teaching Professor of Chemistry  
BS, University of California (Davis); MS, University of Colorado (Boulder); PhD, University of Northern Colorado (Greeley).

**Abbie K. Wrights (2016)**

Assistant Professor of the Practice of Health & Exercise Science  
BA, Messiah College; MS, Wake Forest University.

**Raymond L. Wyatt (1956)**

Professor Emeritus of Biology  
BS, Wake Forest University; PhD, UNC-Chapel Hill.

**David Yamane (2005)**

Associate Professor of Sociology  
BA, University of California (Berkeley); MS, PhD, University of Wisconsin-Madison.

**Tina Yarborough Liggins (2001)**

Adjunct Lecturer  
BFA, UNC, Greensboro; MFA, Virginia Tech.

**Mir Yarfitz (2013)**

Associate Professor of History

BA, Reed College; MA, PhD, University of California (Los Angeles).

**Saami Yazdani (2019)**

Associate Professor of Engineering  
BS, MS, Virginia Tech; PhD, Wake Forest University .

**Lynne Yengulap (2019)**

Assistant Teaching Professor  
BS, MS, Miami University ; PhD, University of Kansas.

**Kyana Young (2019)**

Assistant Professor of Engineering  
BS, University of Arizona; PhD, University of Wisconsin Madison.

**Qiaona Yu (2016)**

Assistant Professor of East Asian Languages and Cultures  
BA, Beijing Foreign Studies University; MA, Peking University; PhD, University of Hawaii (Mānoa).

**Chu (Alex) Yu (2020)**

Assistant Professor of Economics  
BA, Northwestern University; MA, PhD, University of California at San Diego.

**Yaqi Yuan (2020)**

Adjunct Assistant Professor of Sociology  
BA, MA, Hunan Agricultural University ; PhD, SUNY Buffalo.

**Phoebe Zerwick (2010)**

Associate Professor of the Practice  
BA, University of Chicago; MS, Columbia University.

**Clifford W. Zeyl (1997)**

Professor of Biology  
BSc, University of Guelph; MSc, PhD, McGill University.

**Bo Zhan (2020)**

Visiting Assistant Professor of Practice of East Asian Languages and Cultures  
BA, Qingdao University, China; MA, Kyoto University, Japan; MA, Purdue University ; MA, University of Wisconsin-Madison.

**Qiong Zhang (2008)**

Associate Professor of History  
BA, MA, Wuhan University; PhD, Harvard University.

**Ke Zhang (2012)**

Associate Professor of Biology  
BS, Wuhan University; MS, Peking Union Medical College; PhD, MD Anderson Cancer Center.

**Margaret D. Zulick (1991)**

Associate Professor of Communication  
BM, Westminster Choir College; MA, Earlham School of Religion; MTS, Garrett-Evangelical Theological Seminary.

# SCHOOL OF BUSINESS FACULTY

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*Date following name indicates year of appointment. Listings represent those faculty teaching either full or part-time during the fall of 2019 and/or spring 2020.*

**George R. Aldhizer III (2001)**

Associate Professor of Accountancy  
BS, BA, Richmond; PhD, Texas Tech.

**Tom Aleman (2018)**

Professor of the Practice  
BS, BA, University of North Carolina at Charlotte.

**Michael Ames (2020)**

Adjunct Professor of Practice  
BA, University of Georgia, Athens; MBA, University of North Carolina at Chapel Hill.

**Anthony J. Amoruso (2019)**

Associate Teaching Professor  
BS, Frostburg State College; MPA, West Virginia University ; PhD, University of Georgia .

**Phillip C. Anderson (2019)**

Associate Teaching Professor  
BSEE, Purdue University; MSEE, Illinois Institute of Technology;  
MBA, University of California, Los Angeles, Anderson School of Management; PhD, Massachusetts Institute of Technology, Sloan School of Management.

**Derek R. Avery (2015)**

Professor, David C. Darnell Presidential Chair in Principled Leadership  
BS, Tulane; MA, PhD, Rice University.

**Jiaru Bai (2019)**

Assistant Professor  
PhD, University of California Irvine.

**Terry A. Baker (1998)**

Associate Professor  
BA, Miami; MS, Illinois; MBA, Chicago; PhD, Kentucky.

**Ben Baker (2020)**

Adjunct Senior Lecturer  
BS, BA, Richmond University ; PhD, Texas Tech University .

**Tonya E. Balan (2020)**

Associate Teaching Professor  
BS, PhD North Carolina State University .

**Roger L. Beahm (2005)**

Professor of the Practice  
BS, MBA, Colorado (Boulder).

**S. Douglas Beets (1987)**

Professor  
BS, Tennessee; MAcc, PhD, Virginia Poly.Inst. & SU.

**Ann C. Bliss (2016)**

Visiting Professor of the Practice  
BA, University of California, San Diego; JD, University of San Diego.

**Derrick S. Boone (1997)**

Associate Professor  
BA, UNC-Chapel Hill; MBA, Fairleigh Dickinson; PhD, Duke.

**Peter Brewer (2020)**

Lecturer  
BS, Penn State University ; MA, University of Virginia ; PhD, University of Tennessee .

**Peter Brockway (2020)**

Adjunct Professor of the Practice, Executive in Residence  
BBA, Stetson University; MBA, Harvard Business School.

**Holly H. Brower (2005)**

Associate Professor  
BS, Wake Forest University; MS, Iowa State; PhD, Purdue.

**John A. Butler (2017)**

Visiting Professor of the Practice  
BBA, University of Notre Dame; MBA, University of Texas (Austin).

**Jeff Camm (2015)**

Inmar Presidential Chair in Business Analytics & Professor  
BS, Xavier; PhD, Clemson.

**Thomas G. Canace (2009)**

Associate Professor  
BS, St. Joseph's; MBA, Duke; PhD, South Carolina.

**Anna Cianci (2010)**

Associate Professor  
BS, Villanova; MA, St. Joseph's College; MS, Wake Forest University; PhD, Duke.

**Jon Clift (2014)**

Affiliate Professor of the Practice  
MEM, Duke University.

**William L. Davis (1996)**

Teaching Professor  
BA, Carson-Newman College; MA, Wake Forest University; PhD, Ohio State.

**Pat H. Dickson (2006)**

Professor  
BS, MS, Mississippi College; PhD, University of Alabama.

**Lisa Dragoni (2015)**

Exxon-Wayne Calloway Fellow & Associate Professor  
BA, Franklin & Marshall; MA, George Washington; PhD, University of Maryland.

**Jonathan E. Duchac (1993)**

D. Wayne Calloway Professor of Accountancy  
BBA, MAcc, Wisconsin-Madison; PhD, Georgia.

**Mark E. Evans (2014)**

Associate Professor  
BBA, MBA, Radford University; PhD, Duke.

**Bob Fly (2020)**

Adjunct Professor of the Practice  
BBA, Texas Tech University ; MA, Michigan State University .

**Kenneth D. Ford (2019)**

Assistant Professor

BSBA, University of Nebraska; MBA, University of North Carolina at Chapel Hill; PhD, University of Arkansas.

**Michael T. French** (2019)

Adjunct Professor  
BA, James Madison University ; MA, PhD, Boston College.

**Jason Goddard** (2008)

Adjunct Professor of the Practice  
BS, MBA, UNC-Greensboro.

**Benjamin C. Grannan** (2019)

Adjunct Assistant Professor  
BS, Lynchburg College; MS, PhD, Virginia Commonwealth University .

**Haresh Gurnani** (2015)

Benson-Pruitt Professor of Business  
BE, Indian Institute of Technology, New Delhi; MS, PhD, Carnegie Mellon.

**Sean T. Hannah** (2012)

J. Tylee Wilson Chair in Business Ethics and Professor  
BA, California State University; MBA, MA Syracuse University; MA, Marine Corps University; PhD, Nebraska.

**Frederick H. deB. Harris** (1990)

Dean's Fellow in Investments and Professor  
BA, Dartmouth College; PhD, University of Virginia.

**J. Kline Harrison** (1990)

Associate Provost for Global Affairs, Kemper Professor of Business  
BS, University of Virginia ; PhD, University of Maryland.

**Zachary Hartsell** (20202)

Adjunct Professor of the Practice  
BS, Touro College; MPAS, University of Nebraska; AT Still School of Health Management.

**Kenneth C. Herbst** (2007)

Sisel Fellow and Associate Professor  
BA, Wake Forest University; MA, PhD, UNC-Chapel Hill.

**Philip Howard** (2016)

Visiting Instructor  
BS, MS, PhD, UNC-Chapel Hill.

**Jennifer Hudson** (2006)

Visiting Lecturer  
BS, Wake Forest University .

**Sobia S. Hussanini** (2020)

Adjunct Professor of the Practice  
BA, Duke University ; MHA, Saint Louis University .

**Charalambos L. Iacovou** (2001)

Kirby Chair in Business Excellence & Professor of Management  
BS, Vermont; PhD, University of British Columbia.

**Timothy R. Janke** (2007)

Full Professor of the Practice  
BS, UNC-Chapel Hill; LLM, JD, Oglethorpe; MBA, Wake Forest University.

**A.J. Jarachovic** (2017)

Visiting Professor of the Practice  
BSBA, Ohio State University; MBA, Cleveland State University; MFA, University of North Carolina at Wilmington.

**Mark Johnson** (2017)

Teaching Professor, Assistant Dean, MBA Programs  
BS, Florida State University; MSF, Florida International University; MSFE, PhD, University of New Orleans.

**John P. Karabelas** (2019)

Visiting Assistant Professor of the Practice  
BS, Virginia Polytechnic Institute and State University; MS, George Washington University.

**Benjamin T. King** (2007)

Bern Beatty Faculty Fellow and Full Professor of the Practice  
BA, University of Virginia; MBA, Wake Forest University.

**Ged King** (2014)

Adjunct Professor of the Practice  
BS, North Carolina State University.

**Susan I. Langlitz** (2014)

Associate Professor of the Practice  
BS, Towson University ; MA, Emerson College; PhD, University of Maryland.

**Alireza Lari** (2011)

Associate Teaching Professor  
BBA, University of Tehran; MBA, PhD, Texas.

**Jia Li** (2019)

Associate Professor of Marketing  
PhD, Washington University.

**Deron S. Mabe** (2019)

Adjunct Faculty  
BA, UNC Charlotte; BS, MBA, High Point University.

**Denis Maier** (2014)

Associate Professor of the Practice  
MS, Karlsruhe (Germany); PhD, TU Munich (Germany).

**Martin Malloy** (2020)

Professor of the Practice and Faculty Director of the Wall Street Prep Track Program  
BS, Manhattan College.

**Bill Marcum** (1996)

Wall Street Partners Fellow & Associate Professor  
BA, Furman; MA, UNC-Greensboro; PhD, UNC-Chapel Hill.

**Gordon E. McCray** (1994)

AT&T Fellow and Associate Professor  
BS, Wake Forest University; MBA, Stetson; PhD, Florida State.

**Brian D. McKay** (2020)

Adjunct Professor of the Practice  
BS, The Ohio State University ; JD, Kent College of Law, Illinois Institute of Technology ; MBA, Wake Forest University .

**Shannon D. McKeen** (2019)

Adjunct Professor  
BA, Williams College; MBA, Dartmouth College.

**Patrick R. McMullen** (2003)

Associate Professor  
BS, Louisville; MBA, Butler; PhD, Oregon.

**Peter W. Mitchell** (2012)

Adjunct Professor of the Practice  
BA, UNC-Chapel Hill; MBA, Dartmouth College-Tuck School of Business.

**Norma R. Montague (2010)**

Associate Professor  
BA, MA, NC State; PhD, University of South Florida.

**Seyyed Ali Zeytoon Nejad. Moosavian (2019)**

Visiting Assistant Teaching Professor  
PhD, North Carolina State University .

**Sherry E. Moss (2005)**

Professor  
BS, PhD, Florida State.

**James A. Narus (1988)**

Professor  
BA, MBA, Connecticut; PhD, Syracuse University.

**Robert C. Nash (1997)**

Thomas K. Hearn Jr. Professor  
BS, The Citadel; MBA, South Carolina; PhD, Georgia.

**Steve H. Nickles (1995)**

C.C. Hope Chair of Financial Services and Law and Professor  
BA, MPA, JD, Arkansas; LL.M., JSD, Columbia.

**James R. Otteson (2013)**

Thomas W. Smith Presidential Chair in Business Ethics  
BA, University of Notre Dame; PhD, University of Chicago.

**Ajay Patel (1993)**

Thomas Goho Chair in Finance and Professor  
BSc, St. Joseph's College; MBA, University of Baltimore; PhD, Georgia.

**Paula E. Payton (2019)**

Adjunct Lecturer  
BA, University of Vermont; MA, University of Chicago; PhD, Grande Ecole de Commerce NEOMA Business School, Mont-Saint-Aignan, France.

**Matthew T. Phillips (2009)**

John Hendley Fellow & Associate Teaching Professor  
BA, JD, Wake Forest University; MDiv, Duke.

**Jonathan P. Pinder (1990)**

Associate Professor of Management  
BS, NC State; PhD, UNC-Chapel Hill.

**Barbara R. Prestwood (2017)**

Adjunct Teaching Professor  
BS, Western Carolina University; MBA, High Point University.

**Lauren C. Reid (2019)**

Assistant Professor of Accounting  
BS, MSA, Wake Forrester University; PhD, University of Tennessee.

**Michelle Roehm (1997)**

Peter C. Brockway Chair of Strategic Management and Professor of Marketing  
BS, MS, Illinois; PhD, Northwestern.

**Carolina A. de Lima. Salge (2019)**

Assistant Professor of Management Information Systems  
BA, MA, Clemson University; PhD, University of Georgia .

**Vernon Scoggins (2020)**

Adjunct Instructor

BS, University of the State of New York; BS, Augusta State University ;  
MBA, Wake Forest University .

**Scott M. Shafer (1998)**

Professor  
BS, BBA, PhD, Cincinnati .

**Stephan Shipe (2019)**

Assistant Teaching Professor  
BBA, University of North Florida; PhD, Florida State University .

**Whitney L. Simpson (2017)**

Visiting Associate Professor of the Practice  
AB, Davidson College; Master of Taxation, University of South Carolina.

**Christopher M. Smith (2019)**

Associate Teaching Professor  
BS, United States Military Academy; MS, Missouri University of Science and Technology ; MSE, University of Texas at Austin; PhD, University of Virginia .

**Bryan Starrett (2016)**

Adjunct Professor of the Practice  
BS, Wake Forest University; JD, University of Virginia.

**Michelle D. Steward (2004)**

Associate Professor  
BA, MBA West Florida; PhD, Arizona State.

**Deon Strickland (2008)**

Teaching Professor  
AB, Harvard; MBA, Boston College; PhD, UNC-Chapel Hill.

**John Sumanth (2013)**

James Farr Faculty Fellow and Assistant Professor  
BS, Miami; MBA, Florida; PhD, UNC-Chapel Hill.

**Cynthia Tessien (2010)**

Full Professor of the Practice  
BS, Wake Forest University.

**Ron L. Thompson (2000)**

John B. McKinnon Professor of Management  
BMath, University of Waterloo; MBA, McMaster; PhD, University of Western Ontario.

**D. Michael Travis (2020)**

Adjunct Professor of the Practice  
BBA, MBA, University of Texas at Austin.

**Gary A. Tsarsis (2019)**

Visiting Professor of the Practice  
BA, New York University ; MBA, University of Miami.

**J. Bren Varner (2006)**

Senior Lecturer  
BS, Wake Forest University; MBA, University of Virginia.

**Amy Wallis (2012)**

Bern Beatty Fellow and Full Professor of the Practice  
BA, University of Scranton; MS, PhD, Virginia Commonwealth.

**Scott Warfield (2020)**

Adjunct Professor of the Practice

BA, University of North Carolina at Chapel Hill.

**Julie H. Wayne** (2003)

Associate Professor  
BS, Furman; MS, PhD, Georgia (Athens).

**G. Page West III** (1995)

Professor  
BA, Hamilton; MBA, Dartmouth; PhD, Colorado (Boulder).

**Jack E. Wilkerson Jr.** (1989)

D. Wayne Calloway Professor of Accountancy  
BS, Bob Jones; PhD, Texas.

**James B. Willis** (2013)

Full Professor of the Practice  
BS, Master of Taxation, Virginia Commonwealth.

**James W. Woods** (2011)

Associate Professor of the Practice  
BFA, UNC-Chapel Hill; MEd, Erikson Institute of Loyola Chicago.

**Ya Wen Yang** (2009)

Associate Professor  
BBA, Tunghai University; MBA, Illinois; PhD, Tennessee.

**Brian E. Young** (2019)

Associate Teaching Professor  
BS, University of Texas; MBA, Southern Methodist University; PhD,  
Arizona State University .



# EMERITI

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*Dates following names indicate period of service.*

Umit Akinc (1982-2016)

Thomas H. Davis and Professor Emeritus of Business  
BS, Middle East Tech. (Ankara); MBA, Florida State; PhD, UNC-Chapel Hill

John P. Anderson (1984-2010)

Professor Emeritus of Counseling  
BS, MS, PhD, Georgia Tech; MBA, Alabama (Birmingham); MAEd, Wake Forest University

John L. Andronica (1969-2008)

Professor Emeritus of Classical Languages  
BA, Holy Cross; MA, Boston College; PhD, Johns Hopkins

Rajaram B. Baliga (1989-2018)

Professor Emeritus of Business  
BE, University of Madras; PGDBA, Indian Institute of Management; DBA, Kent State

Sarah E. Barbour (1985-2019)

Professor Emeritus of Romance Languages  
BA, Maryville; Diplôme de Langue et de Civilisation Françaises, Paris; MA, PhD, Cornell

James P. Barefield (1963-2004)

Wake Forest Professor Emeritus of History  
BA, MA, Rice; PhD, Johns Hopkins

Richard C. Barnett (1961-1994)

Professor Emeritus of History  
BA, Wake Forest University; MEd, PhD, UNC-Chapel Hill

John V. Baxley (1968-2004)

Wake Forest Professor Emeritus of Mathematics  
BS, MS, Georgia Tech; PhD, University of Wisconsin

Benard L. Beatty (1974-2016)

Associate Professor Emeritus of Business

Robert R. Bliss (2004-2019)

Professor Emeritus of Business  
BS, Purdue; MBA, PhD, University of Chicago

Susan Harden Borwick (1982-2019)

Professor Emerita of Music  
BM, BME, Baylor University; PhD, UNC-Chapel Hill

David G. Brown (1990-2003)

Provost Emeritus  
AB, Denison; PhD, Princeton

Richard D. Carmichael (1971-2018)

Professor Emeritus of Mathematics & Statistics  
BS, Wake Forest University; MA, PhD, Duke

Christa G. Carollo (1985-2005)

Senior Lecturer Emerita of German  
BA, UNC-Greensboro; MA, Duke

Jonathan H. Christman (1983-2016)

Associate Professor Emeritus of Theatre and Dance

AB, Franklin and Marshall; MFA, University of Massachusetts (Amherst)

John E. Collins (1970-2007)

Professor Emeritus of Religion  
BS, MS, Tennessee; MDiv, Southeastern Baptist Theo. Seminary; MA, PhD, Princeton

Leon H. Corbett Jr. (1968-2002)

Vice President and Counsel Emeritus  
BA, JD, Wake Forest University

Nancy J. Cotton (1977-2002)

Professor Emerita of English  
BA, Texas; MA, Wisconsin; PhD, Columbia

Mary K. DeShazer (1982, 1987-2014)

Professor Emerita of English and Women's, Gender, and Sexuality Studies  
BA, Western Kentucky; MA, Louisville; PhD, Oregon

Arun P. Dewasthali (1975-2012)

Associate Professor Emeritus of Business  
BS, Bombay; MS, PhD, Delaware

Ronald V. Dimock Jr. (1970-2015)

Thurman D. Kitchin Professor Emeritus of Biology  
BA, New Hampshire; MS, Florida State; PhD, California (Santa Barbara)

Patricia Dixon (1986-2018)

Senior Lecturer Emerita of Music  
BM, NC School of the Arts; MM, UNC-Greensboro

Robert H. Dufort (1961-1999)

Professor Emeritus of Psychology  
BA, PhD, Duke

John S. Dunkelberg (1983-2001)

Kemper Professor Emeritus of Business (School of Business)  
BS, Clemson; MBA, PhD, South Carolina

Yomi Durotoye (1994-2016)

Associate Teaching Professor Emeritus of Politics and International Affairs  
BS, University of Ibadan; MA, Georgia State; PhD, Duke

John R. Earle (1963-2001)

Professor Emeritus of Sociology  
BA, Wake Forest University; MA, PhD, UNC-Chapel Hill

Paul D. Escott (1988-2018)

Reynolds Professor Emeritus of History  
BA, Harvard; MA, PhD, Duke

Andrew V. Ettin (1977-2013)

Professor Emeritus of English  
BA, Rutgers; MA, PhD, Washington (St. Louis)

Herman E. Eure (1974-2013)

Professor Emeritus of Biology  
BS, Maryland State; PhD, Wake Forest University

David K. Evans (1966-1998)

Professor Emeritus of Anthropology  
BS, Tulane; PhD, California (Berkeley)

Stephen Ewing (1971-2009)

Professor Emeritus of Business (School of Business)

BS, Howard Payne; MBA, Baylor; PhD, Texas Tech

Doyle R. Fosso (1964-1995)  
Professor Emeritus of English  
AB, PhD, Harvard; MA, Michigan

Donald E. Frey (1972-2011)  
Professor Emeritus of Economics  
BA, Wesleyan; MDiv, Yale; PhD, Princeton

Caroline Sandlin Fullerton (1969-1990)  
Lecturer Emerita of SCTA (Theatre Arts)  
BA, Rollins; MFA, Texas Christian

Candelas S. Gala (1978-2018)  
Charles E. Taylor Professor Emerita of Romance Languages  
BA, Salamanca (Spain); MA, PhD, University of Pittsburgh

Kathleen M. Glenn (1974-1998)  
Wake Forest Professor Emerita of Romance Languages  
BA, MA, PhD, Stanford

Thomas S. Goho (1977-2007)  
Thomas S. Goho Chair Emeritus of Finance (School of Business)  
BS, MBA, Penn State; PhD, UNC-Chapel Hill

William C. Gordon (2002-2012)  
Professor Emeritus of Psychology  
BA, MA, Wake Forest University; PhD, Rutgers

Claire Holton Hammond (1978-2013)  
Professor Emerita of Economics  
BA, Mary Washington; PhD, Virginia

J. Daniel Hammond (1978-2019)  
Professor Emeritus of Economics  
BA, Wake Forest University; PhD, University of Virginia

Phillip J. Hamrick Jr. (1956-1995)  
Professor Emeritus of Chemistry  
BS, Morris Harvey; PhD, Duke

Catherine T. Harris (1980-2019)  
Professor Emerita of Sociology  
BA, Lenoir-Rhyne University; MA, Duke University; PhD, University of Georgia

Elmer K. Hayashi (1973-2004)  
Professor Emeritus of Mathematics  
BA, California (Davis); MS, San Diego State; PhD, Illinois

Roger A. Hegstrom (1969-2001)  
Wake Forest Professor Emeritus of Chemistry  
BA, St. Olaf; AM, PhD, Harvard

Donna A. Henderson (1996-2019)  
Professor Emerita of Sociology  
BA, Meredith University; MAT, James Madison University; PhD, University of Tennessee

Marcus B. Hester (1963-2006)  
Professor Emeritus of Philosophy  
BA, Wake Forest University; PhD, Vanderbilt

E. Clayton Hipp Jr. (1991-2016)  
Senior Lecturer Emeritus of Business

BA, Wofford; MBA, JD, South Carolina

Alix Hitchcock (1989-2013)  
Instructor Emerita of Art  
BFA, UNC-Greensboro; MA, New York

George M. Holzwarth (1983-2004)  
Professor Emeritus of Physics  
BA, Wesleyan; MS, PhD, Harvard

Fred L. Horton Jr. (1970-2011)  
Albritton Professor Emeritus of the Bible (Department of Religion)  
BA, UNC-Chapel Hill; BD, Union Theological Seminary; PhD, Duke

Fredric T. Howard (1966-2009)  
Professor Emeritus of Mathematics  
BA, MA, Vanderbilt; PhD, Duke

Patricia Adams Johansson (1969-1998)  
Associate Dean of the College Emerita and Lecturer Emerita of English  
BA, Winston-Salem State; MA, Wake Forest University

Judy Kem (1987-2020)  
Professor Emerita of French Studies  
BA, Western Kentucky University; MA, University of Louisville; PhD, University of North Carolina Chapel Hill

Charles H. Kennedy (1985-2017)  
Associate Professor Emeritus of Business  
BA, Eckerd; AM, MPP, PhD, Duke

William C. Kerr (1970-2008)  
Professor Emeritus of Physics  
BS, Wooster; PhD, Cornell

Lee G. Knight (1979-2018)  
Professor Emeritus of Business  
BS, Western Kentucky; MA, PhD, University of Alabama

Dilip K. Kondepudi (1987-2019)  
Professor Emeritus of Chemistry  
BS, Madras (India); MS, Indian Institute of Technology (Bombay); PhD, University of Texas at Austin

Raymond E. Kuhn (1968-2018)  
William L. Poteat Professor Emeritus of Biology  
BS, Carson-Newman; PhD, University of Tennessee

James Kuzmanovich (1972-2014)  
Professor Emeritus of Mathematics  
BS, Rose Polytechnic; PhD, Wisconsin

Hugo C. Lane (1973-2013)  
Professor Emeritus of Biology  
Licenciante of the Biological Sciences, Doctorate of the Biological Sciences, Geneva

Michael S. Lawlor (1986-2014)  
Professor Emeritus of Economics  
BA, Texas (Austin); PhD, Iowa State

Candyce C. Leonard (1996-2014)  
Professor Emerita of Communication  
BA, Texas Wesleyan; MA, MEd, Louisville; PhD, Indiana (Bloomington)

Charles M. Lewis (1968-2016)

A.C. Reid Professor Emeritus of Philosophy  
BA, Wake Forest University; ThM, Harvard; PhD, Vanderbilt

Stanley W. Mandel (1998-2019)  
Professor Emeritus of Business  
BS, Tulane; MBA, Kellogg GSM; PhD, Texas Tech

Milorad R. Margitic (1978-2005)  
Professor Emeritus of Romance Languages  
MA, Leiden (Netherlands); PhD, Wayne State

Dale R. Martin (1982-2018)  
Professor Emeritus of Business  
BS, MS, Illinois State; DBA, Kentucky

George "Rick" Matthews (1979-2020)  
Professor Emeritus of Physics  
BS, PhD, University of North Carolina Chapel Hill

Jill Jordan McMillan (1983-2006)  
Professor Emerita of Communication  
BA, Baylor; MA, Arkansas; PhD, Texas

Gordon A. Melson (1991-2006)  
Dean of the Graduate School of Arts & Sciences Emeritus  
BS, PhD, Sheffield (England) and Professor Emeritus of Chemistry

Jack R. Meredith (1995-2017)  
Professor Emeritus of Business  
BS, Oregon State; MBA, PhD, California (Berkeley)

J. Kendall Middaugh II (1987)  
Associate Professor of Management  
BBA, MBA George Washington; PhD, Ohio State

Joseph O. Milner (1969-2014)  
Professor Emeritus of Education  
BA, Davidson; MA, PhD, UNC-Chapel Hill

John C. Moorhouse (1969-2006)  
Archie Carroll Professor Emeritus of Ethical Leadership  
BA, Wabash; PhD, Northwestern (Department of Economics)

Patrick E. Moran (1989-2010)  
Associate Professor Emeritus of Chinese (East Asian Languages and Cultures)  
BA, MA, Stanford; MA, National Taiwan University; PhD, Pennsylvania

Thomas E. Mullen (1957-2000)  
Dean of the College Emeritus and Professor Emeritus of History  
BA, Rollins; MA, PhD, Emory University

Joel Newman (1976-2017)  
Professor Emeritus of Law

Ronald E. Nofle (1967-2014)  
Professor Emeritus of Chemistry  
BS, New Hampshire; PhD, Washington

Gillian Rose Overing (1979-2019)  
Professor Emerita of English  
BA, Lancaster (England); MA, PhD, State University of New York (Buffalo)

Perry L. Patterson (1986-2013)  
Professor Emeritus of Economics and Lecturer Emeritus of Russian

BA, Indiana University; MA, PhD, Northwestern

Philip J. Perricone (1967-2003)  
Professor Emeritus of Sociology  
BS, MA, Florida; PhD, Kentucky

Robert J. Plemmons (1990-2013)  
Reynolds Professor Emeritus of Mathematics and Computer Science  
BS, Wake Forest University; PhD, Auburn

James T. Powell (1988-2015)  
Associate Professor Emeritus of Classical Languages  
BA, Emory; MPhil, MA, PhD, Yale

Jenny Puckett (1995-2013)  
Lecturer Emerita in Romance Languages  
BA, Wake Forest University; MA, Middlebury

Mary Lynn B. Redmond (1989-2018)  
Professor Emerita of Education  
BA, EdD, UNC-Greensboro; MEd, UNC-Chapel Hill

Suzanne Reynolds (1981-2020)  
Professor Emerita of School of Law

Paul M. Ribisl (1973-2013)  
Charles E. Taylor Professor Emeritus of Health and Exercise Science  
BS, Pittsburgh; MA, Kent State; PhD, Illinois

Charles L. Richman (1968-2006)  
Professor Emeritus of Psychology  
BA, Virginia; MA, Yeshiva; PhD, Cincinnati

Leonard P. Roberge (1974-2002)  
Professor Emeritus of Education  
BA, New Hampshire; MA, Atlanta; EdD, Maine

Donald P. Robin (1997-2009)  
J. Tylee Wilson Professor Emeritus of Business Ethics (School of Business)  
BS, MBA, PhD, Louisiana State

Brooke Saladin (1983-2018)  
Professor Emeritus of Business  
BS, PhD, Ohio State; MBA, Bowling Green State

Wilmer D. Sanders (1954-1957, 1964-1992)  
Professor Emeritus of German  
BA, Muhlenberg; MA, PhD, Indiana

Timothy F. Sellner (1970-2003)  
Professor Emeritus of German  
BA, PhD, Michigan; MA, Wayne State

Cathy Seta (1987-2020)  
Professor Emerita of Psychology  
BA, MA, PhD, University of North Carolina Greensboro

Kurt C. Shaw (1987-2018)  
Associate Professor Emeritus of Russian  
BA, Missouri; MA, PhD, University of Kansas

Howard W. Shields (1958-2001)  
Professor Emeritus of Physics  
BS, UNC-Chapel Hill; MS, Pennsylvania State; PhD, Duke

Robert N. Shorter (1958-1999)  
Professor Emeritus of English  
BA, Union; MA, PhD, Duke

Jeanne M. Simonelli (1999-2013)  
Professor Emerita of Anthropology  
BA, MA, PhD, Oklahoma; MPH, Oklahoma University Health Sciences  
Center

Michael L. Sinclair (1968-2006)  
Professor Emeritus of History  
BA, Wake Forest University; AM, PhD, Stanford

Earl Smith (1996-2012)  
Rubin Professor Emeritus of American Ethnic Studies and Professor  
Emeritus of Sociology  
BA, SUNY (Stony Brook); MA, PhD, Connecticut

Margaret Supplee Smith (1979-2011)  
Harold W. Tribble Professor Emerita of Art  
BS, Missouri; MA, Case Western Reserve; PhD, Brown

Cecilia H. Solano (1977-2017)  
Associate Professor Emerita of Psychology  
BA, Harvard; MA, PhD, Johns Hopkins

David H. Stroupe (1990-2016)  
Associate Professor Emeritus of the Practice in English  
BS, Wake Forest University; MA, UNC-Chapel Hill

Thomas C. Taylor (1971-2003)  
Professor Emeritus of Accountancy (School of Business)  
BS, MA, UNC-Chapel Hill; PhD, Louisiana State

Harold C. Tedford (1965-1998)  
Professor Emeritus of Theatre  
BA, Ouachita; MA, Arkansas; PhD, Louisiana State

Harry B. Titus Jr. (1981-2013)  
Professor Emeritus of Art  
BA, Wisconsin (Milwaukee); MFA, PhD, Princeton

Ralph B. Tower (1980-2014)  
Wayne Calloway Professor Emeritus of Taxation  
BA, PhD, UNC-Chapel Hill; MBA, Cornell

George W. Trautwein (1983-1996)  
Director of Instrumental Ensembles Emeritus (Department of Music)  
BMus, Oberlin; MMus, Cleveland Institute; MusD, Indiana

Robert W. Ulery Jr. (1971-2011)  
Professor Emeritus of Classical Languages  
BA, MA, PhD, Yale

Robert L. Utley Jr. (1978-2013)  
Associate Professor Emeritus of Humanities  
BA, Wake Forest University; MA, PhD, Duke

Sarah L. Watts (1987-2011)  
Professor Emerita of History  
BA, Oklahoma College of Liberal Arts; MA, PhD, Oklahoma

David S. Weaver (1977-2002)  
Professor Emeritus of Anthropology  
BA, MA, Arizona; PhD, New Mexico

Peter D. Weigl (1968-2009)  
Professor Emeritus of Biology  
BA, Williams; PhD, Duke

David P. Weinstein (1989-2015)  
Professor Emeritus of Politics and International Affairs  
BA, Colorado College; MA, Connecticut; PhD, Johns Hopkins

Byron R. Wells (1981-2016)  
Professor Emeritus of Romance Languages  
BA, MA, Georgia; PhD, Columbia

George Page West (1995-2020)  
Professor Emeritus of School of Business

Larry E. West (1969-2010)  
Professor Emeritus of German  
BA, Berea; PhD, Vanderbilt

M. Stanley Whitley (1990-2013)  
Professor Emeritus of Romance Languages  
BA, Wake Forest University; MA, PhD, Cornell

Alan Williams (1974-2020)  
Professor Emeritus of History  
BA, Stanford University; PhD, Yale University

Richard T. Williams (1985-2017)  
Professor Emeritus of Physics  
BS, Wake Forest University; MA, PhD, Princeton

John G. Williard (1958-1994)  
Vice President and Treasurer Emeritus  
BS, UNC-Chapel Hill

David C. Wilson (1984-85, 1987-2015)  
Associate Professor of the Practice Emeritus of Mathematics  
BS, Wake Forest University; MAT, Emory

Edwin G. Wilson (1951-2002)  
Provost Emeritus and Professor Emeritus of English  
BA, Wake Forest University, AM, PhD, Harvard

Donald H. Wolfe (1968-2000)  
Professor Emeritus of Theatre  
BS, MS, Southern Illinois; PhD, Cornell

J. Ned Woodall (1969-2003)  
Professor Emeritus of Anthropology  
BA, MA, Texas; PhD, Southern Methodist

Raymond L. Wyatt (1956-1992)  
Professor Emeritus of Biology  
BS, Wake Forest University; MA, PhD, UNC-Chapel Hill

# ENROLLMENT

## All Schools—Fall 2019

School	Men	Women	Total
Undergraduate Schools	2476	2811	5287
The Graduate School (Reynolda Campus)	190	401	591
The Graduate School (Bowman Gray Campus)	139	180	319
The School of Law	301	398	699
Divinity School	39	60	99
School of Business (Graduate)	407	304	711
The Wake Forest School of Medicine (Includes Physician Assistant, Nurse Anesthesia and Doctor of Nursing Practice)	321	468	789
<b>University Totals</b>	<b>3,873</b>	<b>4,622</b>	<b>8,495</b>

Geographic Distribution—Undergraduates

## By State (2019)

State	Number
Alabama	31
Alaska	1
Arizona	12
Arkansas	6
California	188
Colorado	63
Connecticut	200
Delaware	19
District of Columbia	15
Florida	363
Georgia	265
Hawaii	1
Idaho	3
Illinois	127
Indiana	15
Iowa	4
Kansas	11
Kentucky	23
Louisiana	20
Maine	16
Maryland	203
Massachusetts	248
Michigan	15
Minnesota	31
Mississippi	4
Missouri	33
Montana	6
Nebraska	2
Nevada	4
New Hampshire	9
New Jersey	312

New Mexico	4
New York	380
North Carolina	1,027
North Dakota	0
Ohio	82
Oklahoma	3
Oregon	8
Pennsylvania	228
Rhode Island	27
South Carolina	125
South Dakota	1
Tennessee	112
Texas	153
Utah	3
Vermont	13
Virginia	235
Washington	15
West Virginia	16
Wisconsin	15
Wyoming	3

## Countries Represented (Fall 2019)

- Australia
- Austria
- Belgium
- Bermuda
- Brazil
- Bulgaria
- Canada
- China
- Croatia
- Cyprus
- Dominican Republic
- Estonia
- Ethiopia
- France
- Germany
- Guatemala
- Honduras
- Iceland
- India
- Indonesia
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Mexico
- Montenegro
- Netherlands
- New Zealand
- Nigeria

- Norway
- Pakistan
- Peru
- Philippines
- Romania
- Russia
- Serbia
- South Africa
- South Korea
- Spain
- Sweden
- Switzerland
- Taiwan
- Thailand
- United Kingdom
- Vietnam

**International Students: 513**

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### 2017-2021

John I. Bitove, Jr., *Toronto, Ontario, Canada*  
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### 2018-2022

Jeanne Whitman Bobbitt, *Dallas, TX*  
 Thomas W. Bunn, *Kiawah Island, SC*  
 Lindsay N. Chambers, *Los Angeles, CA*  
 Matthew S. Crawford, *Austin, TX*  
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 Alice Kirby Horton, *Durham, NC*  
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### 2019-2023

Diana M. Adams, *Bartlesville, OK*  
 Donna A. Boswell, *Winston-Salem, NC*  
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 Cantey M. Ergen, *Littleton, CO*  
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 Alice Proietti, *Englewood, CO*  
 Michael J. Selverian, Sr., *St. Davids, PA*  
 Katherine B. Wright, *Rancho Santa Fe, CA*

Nathan O. Hatch, President, *ex officio*

### Student Trustee 2019-2020

Kyle R. Adams, *Henrico, VA*

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 A. Doyle Early, Jr., *High Point, NC*  
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 Harvey R. Holding, *Ponte Vedra Beach, FL*  
 Albert R. Hunt, *Washington, DC*  
 Jeanette W. Hyde, *Raleigh, NC*  
 James W. Johnston, *Jensen Beach, FL*  
 Donald D. Leonard, *Pawleys Island, SC*  
 Dee Hughes LeRoy, *Winston-Salem, NC*  
 William L. Marks, *New Orleans, LA*  
 Theodore R. Meredith, *Vero Beach, FL*  
 Russell W. Meyer, Jr., *Wichita, KS*  
 L. Glenn Orr, Jr., *Winston-Salem, NC*  
 Celeste M. Pittman, *Rocky Mount, NC*  
 Frances P. Pugh, *Raleigh, NC*  
 Michael G. Queen, *Wilmington, NC*  
 Deborah K. Rubin, *Winston-Salem, NC*  
 Andrew J. Schindler, *Winston-Salem, NC*  
 Adelaide A. Sink, *Thonotosassa, FL*  
 K. Wayne Smith, *Newton, NC*  
 Kyle A. Young, M.D., *Greensboro, NC*

## Board of Trustees Officers 2019-2020

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**Vice Chairs:** Dr. Herman E. Eure, Mr. Matthew A. King

**Treasurer:** Mr. B. Hofler Milam

**Secretary:** Mr. J. Reid Morgan

**Assistant Secretary:** Ms. Anita M. Conrad

## Wake Forest College Board of Visitors

**Chairperson:** June Sabah, *New York, NY*

*Terms Expiring June 30, 2019*

Shannon Bothwell, *Hobe Sound, FL*  
 Karoline D. Carlson, *Houston, TX*  
 Peter M. Carlson, *Charlotte, NC*  
 Michael A. Carter, *Kenilworth, IL*  
 Timothy J. Croak, *New York, NY*  
 Nancy W. Downing, *Charlotte, NC*  
 Susan H. Greene, *Jacksonville, FL*  
 Todd W. House, *Atlanta, GA*  
 Hannah F. Kehaya, *Raleigh, NC*  
 Jared G. Lilly, *New York, NY*  
 Erik L. Lisher, *New York, NY*  
 Jennifer S. Madden, *Lexington, KY*  
 Michael R. McMullen, *Palo Alto, CA*

Scott W. Mohr, *Greenwich, CT*  
Arthur W. Orr, *Decatur, AL*  
George M. Rountree II, *Lyme, NH*  
June Sabah, *New York, NY*  
William C. Sinclair, *New York, NY*  
John C. Weber Jr., *Wayne, PA*

*Terms Expiring June 30, 2020*

Carol B. Adams, *Marietta, GA*  
Frank A. Armstrong, *Melbourne, FL*  
Elizabeth C. Becton, *Augusta, GA*  
Allison D. Blaisdell, *Atlanta, GA*  
Andrew G. Blaisdell, *Atlanta, GA*  
William W. Ciesar, *Fairfax, VA*  
Felicia L. Goins, *Columbia, SC*  
James N. Harton, *Oak Ridge, NC*  
L. Davis Jackson, *Brookhaven, GA*  
Thomas P. Jennings, *McLean, VA*  
Denise D. Kotos, *Jacksonville, FL*  
Susan R. Leadem, *Charleston, SC*  
Christopher B. Leak, *Winston-Salem, NC*  
Carol Lorenz, *Charlotte, NC*  
William R. Lorenz, *Charlotte, NC*  
Marcus C. Miller, *Chicago, IL*  
Robert B. Outland III, *Rich Square, NC*  
Andrew J. Sterge, *Wayne, PA*

Robert A. Team Jr., *Lexington, NC*

*Terms Expiring June 30, 2021*

Lynn C. Baranski, *Princeton, NJ*  
Roland H. Bauer, *Silver Lake, OH*  
Elliot S. Berke, *Arlington, VA*  
John F. Blair, *Ruxton, MD*  
Kristin R. Carlock, *Greensboro, NC*  
R. Craig Carlock, *Greensboro, NC*  
David M. Curtis, *Marietta, GA*  
Donna B. Gaut, *Houston, TX*  
Douglas M. Hartman, *Austin, TX*  
Darin J. Hill, *Raleigh, NC*  
Nancy R. Kuhn, *Washington, DC*  
R. Brian McCaslin, *Wellesley Hills, MA*  
Brian D. Siska, *Minneapolis, MN*  
Tisha S. Turner, *Raleigh, NC*  
Keith W. Vaughan, *Winston-Salem, NC*  
Lydia H. Vaughan, *Winston-Salem, NC*

## **Wake Forest University School of Business Board of Visitors**

**Chairperson:** Alan J. Kelly, *Houston, TX*

Dana S. Alligood, *San Diego, CA*  
John A. Allison, IV, *Winston-Salem, NC*  
Margaret G. Beasley, *Charlotte, NC*  
Susan M. Benz, *New York, NY*  
P. James Brady, III, *Chicago, IL*  
Janice W. Calloway, *Dallas, TX*  
Brian Cochrane, *New York, NY*  
John E. Cogan, *New York, NY*  
David M. Denton, *Charlotte, NC*  
Lisbeth C. Evans, *Winston-Salem, NC*  
Robert T. Fischbach, *San Francisco, CA*

Sharon French, *New York, NY*  
Michael J. Genereux, *New York, NY*  
Thomas P. Gibbons, *New York, NY*  
Douglas Gilstrap, *New York, NY*  
Jessica B. Good, *Greensboro, NC*  
R. Kent Griffin, Jr., *Mount Pleasant, SC*  
Craig A. Gunckel, *Duluth, GA*  
Dennis G. Hatchell, *Winston-Salem, NC*  
Marybeth T. Hays, *Fayetteville, AR*  
S. Laing Hinson, III, *Alexandria, VA*  
G. Thomas Hough, *Atlanta, GA*  
Kathleen M. Johnson, *Redmond, WA*  
Todd J. Jones, *New York, NY*  
Mark W. Kehaya, *Raleigh, NC*  
Robert P. Lee, *Westport, CT*  
Thomas E. Line, *Columbus, OH*  
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Michael F. Mahoney, *Marlborough, MA*  
Andrea L. Malik Roe, *Atlanta, GA*  
Douglas A. McGraw, *Duncan, SC*  
John P. McNicholas, *Westport, CT*  
John R. Miller, IV, *New York, NY*  
L. David Mounts, *Winston-Salem, NC*  
Phillip J. Neugebauer, *Fairfield, CT*  
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Cathy J. Pace, *Winston-Salem, NC*  
R. Doyle Parrish, *Raleigh, NC*  
Mitchell W. Perry, *Durham, NC*  
Lorraine J. Prentis, *New York, NY*  
Billy D. Prim, *Winston-Salem, NC*  
Jorge Rodriguez, *Mexico City, Mexico*  
José R. Rodriguez, *New York, NY*  
Karen W. Rogers, *Winston-Salem, NC*  
Michael E. Rogers, *New York, NY*  
Jan A. Schipper, *Greenville, SC*  
Ashley M. Skyrme, *Washington, DC*  
Gerald F. Smith, Jr., *Winchester, VA*  
Ralph M. Snow, III, *Charlotte, NC*  
Anthony W. Thomas, *Little Rock, AR*  
C. Jeffery Triplette, *Sandy, UT*  
Howard Upchurch, *Winston-Salem, NC*  
David Wahrhaftig, *New York, NY*  
Frank Warren, *Winston-Salem, NC*  
J. Gibson Watson, III, *Denver, CO*  
Gregory J. Wessling, *Cornelius, NC*  
Stephen J. Wiehe, *Raleigh, NC*  
Eric C. Wiseman, *Greensboro, NC*



# THE ADMINISTRATION

*Administration reflects leadership as of July 1, 2018. Year following name indicates year of hire.*

## Administration—Reynolda Cabinet

Nathan O. Hatch (2005)

President

AB, Wheaton College; AM, PhD, Washington (St. Louis)

Rogan Kersh (2012)

Provost

BA, Wake Forest University; MA, MPhil, PhD, Yale

Andrew R. Chan (2009)

Vice President, Innovation and Career Development

BA, MBA, Stanford

John Currie

Director of Athletics

BA, Wake Forest University; MS Tennessee

James J. Dunn (2009)

Special Assistant to the President & CEO, Verger Capital Management, LLC

BS, Villanova

Julie A. Freischlag, MD (2018)

CEO, Wake Forest Baptist Medical Center and Dean of Wake Forest School of Medicine

BS, University of Illinois; MD, Rush University

Michele K. Gillespie (1999)

Dean of Wake Forest College

BA, Rice; MA, PhD, Princeton University

Todd Johnson (2012)

Vice President and Executive Director, Wake Forest University Charlotte

BA, UNC; MBA, Wake Forest University

Eric Maguire (2019)

Vice President for Enrollment

BA, Muhlenberg College; MA, Indiana University

B. Hofler Milam (2010)

Executive Vice President and CFO

BS, MBA, Wake Forest University

James Reid Morgan (1979)

Senior Vice President and General Counsel

BA, JD, Wake Forest University

Mark A. Petersen (2008)

Vice President for University Advancement

BA, Brandeis; MA, University of Southern California

Mary E. Pugel (2005)

Chief of Staff, President's Office

BA, University of Washington

Penny Rue (2013)

Vice President for Campus Life

AB, Duke University; MA, The Ohio State University; PhD, Maryland

José Villalba (2011)

Vice President for Diversity and Inclusion and Chief Diversity Officer

BS, MEd, EdS, PhD, Florida

## College

Michele K. Gillespie (1999)

Dean of Wake Forest College

BA, Rice; MA, PhD, Princeton

Rebecca W. Alexander (2000)

Director of Academic Planning for Wake Downtown

BS, Delaware University; PhD, University of Pennsylvania

Karen M. Bennett (1985)

Assistant Dean for Academic Advising

BS, Winston-Salem State University; MA, Wake Forest University

Jane H. Caldwell (1999)

Senior Associate Athletic Director; Assistant to the Dean of the College, Student Athlete Academic Services

BS, UNC-Greensboro; MS, Wake Forest University

Anne E. Hardcastle (2002)

Associate Dean for Academic Planning

BA, Texas A&M University; MA, PhD, University of Virginia

T. Nathaniel French (1995)

Director, Magnolia Scholars

BA, Wake Forest University; MA, PhD, UNC-Chapel Hill

Laura Giovanelli (2014)

Associate Dean for Learning Spaces

BA, UNC-Chapel Hill; MFA, North Carolina State University

Mike Haggas (2010)

Assistant Dean of College Development

BA, Clark University

Eric Ashley Hairston (2019)

Associate Dean for Academic Advising

BA, Wake Forest University; MA, PhD, University of Virginia; JD, UNC-Chapel Hill

Cherise James (2009)

Associate Director of Orientation and Lower Division Programming

BS, University of Florida; MS, Nova Southeastern University; PhD, UNC-Greensboro

Michael Lamb (2016)

Director of the Program for Leadership and Character

BA, Rhodes College; BA, University of Oxford (UK); PhD, Princeton University

Anthony P. Marsh (1996)

Senior Associate Dean of Faculty

BPE, MEd, Western Australia; PhD, Arizona State

George E. Matthews Jr. (1979)

Director, Academics and Instructional Technology

BS, PhD, UNC-Chapel Hill

Tom Phillips (1982)

Associate Dean and Director of Wake Forest Scholars and Interdisciplinary Humanities

BA, MA, Wake Forest University; PhD, UNC-Chapel Hill

Seneca Rudd (2011)  
Director of Finance and Administration  
BS, Appalachian State University

Erica Still (2007)  
Associate Dean for Faculty Recruitment, Diversity, and Inclusion  
BA, Temple University; MA, PhD, University of Iowa

Eric Stottlemeyer (2012)  
Associate Dean for the Engaged Liberal Arts  
BA, Ohio State University; MA, San Diego State University; PhD, University of Nevada

David F. Taylor (2005)  
Assistant Dean for Global Study Away Programs, Center for Global Programs and Studies  
BA Princeton; MALS, Wake Forest University

Kimberly Wieters (2007)  
Assistant Dean for Finance and Administration  
BS, College of Charleston

## Provost

Rogan Kersh (2012)  
Provost and Professor of Politics and International Affairs  
BA, Wake Forest University; MA, MPhil, PhD, Yale

J. Kline Harrison (1990)  
Associate Provost for Global Affairs and Kemper Professor of Business  
BS, Virginia; PhD, Maryland

Beth Hoagland (2004)  
Assistant Provost for Budget and Finance  
BA, UNC-Charlotte

Harold L. Pace (2010)  
Assistant Provost for Academic Administration and University Registrar  
BS, Southern Arkansas; MS, East Texas State; PhD, Texas A&M

Keith D. Bonin (1992)  
Associate Provost for Research and Scholarly Inquiry and Professor of Physics  
BS, Loyola University; PhD, University of Maryland

Kami Chavis (2006)  
Associate Provost for Academic Initiatives and Professor of Law  
BA, UNC-Chapel Hill; JD, Harvard

Christina T. Soriano (2006)  
Associate Provost for Arts and Interdisciplinary Initiatives, Director of Dance and Associate Professor  
BA, Trinity College; MFA, Smith College

José Villalba (2011)  
Vice President for Diversity and Inclusion and Chief Diversity Officer  
BS, MEd, EdS, PhD, Florida

Philip G. Handwerk (2013)  
Assistant Provost of Institutional Research  
BA, Wake Forest University; MS, NC State; PhD, Pennsylvania

Martha Blevins Allman (1982)  
Senior Associate Provost and Dean, University Collaborations

BA, MBA, Wake Forest University

## Graduate School

Dwayne Godwin (1997)  
Dean, Bowman Gray Campus  
BA, University of West Florida; PhD, University of Alabama (Birmingham)

Bradley T. Jones (1989)  
Dean, Reynolda Campus  
BS, Wake Forest University; PhD, Florida

Debbie Newsome (1999)  
Associate Dean for Graduate Students, Reynolda Campus  
BS, Oklahoma Baptist University; PhD, University of North Carolina-Greensboro

Thomas Frank (2010)  
Associate Dean for Continuing Studies, Reynolda Campus  
BA, Harvard University; MDiv, Emory University; MA, Georgia State University

Sandy Dickson (2009)  
Associate Dean for Academic Initiatives  
BSEd, Mississippi College, MA, University of West Florida; PhD, Florida State University

## School of Business

Charles Iacovou (2001)  
Dean  
BS, University of Vermont; PhD, University of British Columbia

Michelle L. Roehm (1997)  
Vice Dean of Faculty  
BS, MS, University of Illinois; PhD, Northwestern

Kenneth C. Herbst (2007)  
Associate Dean of the Undergraduate Program  
BA, Wake Forest University; MA, PhD, University of North Carolina at Chapel Hill

Mark Evans (2014)  
Associate Dean of Accountancy  
BBA, MBA, Radford University; PhD, Duke

Jeff Camm (2015)  
Associate Dean, Business Analytics Program  
BS, Xavier; PhD, Clemson

Norma R. Montague (2010)  
Associate Dean of the Master of Science in Management Program  
BA, MA, NC State; PhD, University of South Florida

Timothy R. Janke (2007)  
Associate Dean of MBA Programs  
BS, University of North Carolina at Chapel Hill; LLM, JD, Oglethorpe; MBA, Wake Forest University

Mark Johnson (2017)  
Assistant Dean of MBA Programs  
BS, Florida State University; MSF, Florida International University; MSFE, PhD, University of New Orleans

Mercy Eyadiel (2011)  
Chief Corporate Engagement Officer

BA, Southern Nazarene; MEd, Oklahoma City

Keith Gilmer (2015)

Chief Administrative Officer

BS, Lander University; MBA Vanderbilt University

Sylvia Green (2009)

Chief Marketing Officer

BS, University of Colorado

Matt W. Imboden (2018)

Chief Student Services Officer

BA, MA Wake Forest University

Haresh Gurnani (2015)

Program Director, Mathematical Business

BE, Indian Institute of Technology, New Delhi; MS, PhD, Carnegie Mellon

Bill Marcum (1996)

Program Director, Finance

BA, Furman; MA, UNC-Greensboro; PhD, UNC-Chapel Hill

Bren Varner (2006)

Program Director, Business and Enterprise Management

BS, Wake Forest University; MBA, Virginia

## School of Divinity

Jonathan Lee Walton (2019)

Dean

BA, Morehouse College; MDiv, PhD, Princeton Theological Seminary

Jill Y. Crainshaw (1999)

Vice Dean for Faculty Development and Academic Initiatives

BA, Wake Forest University; MDiv, Southeastern Baptist Theological Seminary; PhD, Union Theological Seminary/Presbyterian School of Christian Education

Shonda R. Jones (2011)

Senior Associate Dean for Strategic Initiatives and Integrative Learning

BA, Texas Christian; MDiv, Brite Divinity School; EDD, University of Alabama

Sheila Virgil (2014)

Assistant Dean of Development

BA, St. John's College (Annapolis); MNO, Case Western Reserve University

## School of Law

Jane H. Aiken (2019)

Dean of the School of Law

BA, Holins College; JD, New York University; LL.M, Georgetown

Wendy Parker (2003)

Executive Associate Dean, Academic Affairs

BA, JD, Texas

Quentin Huff (2004)

Associate Dean of Students

BA, JD, Wake Forest

Richard C. Schneider (1992)

Associate Dean for International Affairs and Professor of Law

BA, Colorado; MA, Yale; JD, New York

Ronald Wright (1988)

Associate Dean of Research

AB, William and Mary; JD, Yale

Christopher Knott (2012)

Associate Dean for Information Services and Technology and Professor of Law

BA, Iowa; MLIS, Indiana; JD, Michigan

Simone Rose (1993)

Associate Dean for Innovation and Entrepreneurship

BS, University of Pennsylvania; JD, University of Maryland

Aurora Edenhart-Pepe (2020)

Chief Administrative Officer

BS, West Chester

## Wake Forest School of Medicine

Julie A. Freischlag (2018)

CEO, Wake Forest Baptist Medical Center and Dean of Wake Forest School of Medicine

BS, University of Illinois; MD, Rush University

Evelyn (Lynn) Y. Anthony (2017)

Senior Associate Dean of Faculty Affairs

BS, University of North Carolina, Chapel Hill; MD, Duke University School of Medicine

C. Randall Clinch (2011)

Associate Dean for MD Program Academic Affairs (Interim); Associate Dean Faculty Development; Medical Director, Employee Health; and Professor of Family and Community Medicine

BS, College of New Jersey; DO, University of Medicine and Dentistry of New Jersey - School of Osteopathic Medicine; MS, Wake Forest University

Michael T. Fitch (2018)

Associate Dean for Faculty Affairs, Professor and Vice Chair for Academic Affairs, Emergency Medicine

BS, College of William and Mary; PhD, Case Western Reserve School of Medicine; MD, Case Western Reserve School of Medicine

Beth Gianopoulos (2018)

Associate Dean of Faculty Relations and Retention, Senior Counsel, Wake Forest Baptist Medical Center Legal Department, and Assistant Professor of Surgery

JD, Wake Forest University

Gregory L. Burke, MD, MSc (2017)

Senior Associate Dean for Research and Professor of Public Health Sciences and Chief Science Officer

MD, MSc, University of Iowa

Stephen Kritchevsky (2012)

Associate Dean of Research Development and Director of the Sticht Center on Aging

MSPH, PhD, University of North Carolina, Chapel Hill

Donald A. McClain (2016)

Associate Dean for Clinical and Translational Science

MD, PhD, The Rockefeller University, Cornell Medical College

Lynne Wagenknecht (2013)

Associate Dean for Interdisciplinary Research

BS, Lenoir-Rhyne, Dr PH, Alabama-Birmingham

Terry L. Hales, Jr. (2014)  
Senior Vice President, Academic Administration and Operations & Executive Vice Dean  
BSBA, Appalachian State; MBA, Wake Forest University

Christopher O'Byrne, (2016)  
Vice President and Associate Dean of Research Administration and Operations  
BA, Stonehill College; MS, Northeastern University

Terri S. Yates (2015)  
Vice President and Associate Dean, Healthcare Education Administration  
BS, MA, Wake Forest University; PhD, University of North Carolina-Greensboro

James Hoekstra (2018)  
Senior Vice President and Associate Dean, Clinical and Academic Network Development  
MD, University of Michigan Medical School

Michael P. Lischke (2001)  
Associate Dean of Continuing Medical Education and Richard Janeway, MD Distinguished Director, Northwest Area Health Education Center  
BA, MPH, Emory; EdD, Temple

Brenda Latham-Sadler (2012)  
Associate Dean of Student Inclusion and Diversity  
BS, Pace; MD, Wake Forest University

Marcia M. Wofford (2013)  
Associate Dean of Student Affairs  
BA, Millsaps College; MD, University of Mississippi Medical Center

Avinash (Avi) Shetty, (2015)  
Associate Dean of Global Health  
MBBS, University of Bombay; MD, University of Bombay

Mitchell Sokolosky (2014)  
Associate Dean of Graduate Medical Education, ACGME Designated Institutional Official, Associate Professor, Emergency Medicine  
MD, West Virginia University School of Medicine

Daryl Rosenbaum (2019)  
Associate Dean of Admissions and Student Financial Aid  
BA, University of Michigan; MD, Wake Forest University

Modupeola Akinola (2019)  
Assistant Dean of Admissions and Student Financial Aid  
BS, MB, University of Ibadan Medical School - Nigeria

Marquita Hicks (2019)  
Assistant Dean of Student Inclusion and Diversity  
Ba, Hendrix College; MD, University of Kansas

## Admissions and Financial Aid

Eric Maguire (2019)  
Vice President for Enrollment  
BA, Muhlenberg College; MA, Indiana University

Karen Vargas (2017)  
Dean of Admissions  
BA, Haverford College; MSM Rosemont College

Tamara L. Blocker (1999)  
Sr. Associate Dean of Admissions - Admissions Operations

BS, Florida State University; MA, University of Central Florida

Dawn E. Calhoun (1999)  
Sr. Associate Dean of Admissions - Admissions Programming  
BA, MA, Wake Forest University

Paul M. Gauthier (2003)  
Associate Dean of Merit-Based Scholarships  
BA, Wake Forest University; MA, St. Louis University

Kevin Pittard (2007)  
Associate Dean of Admissions  
BA, Wake Forest University; MEd, Georgia

Nicole McInteer (2015)  
Associate Dean of Admissions  
BA, Wake Forest University; PhD, Penn State

Adrian Greene (2018)  
Associate Dean of Admissions  
BA, MA, Wake Forest University; PhD, UNC-Chapel Hill

Morgan Wehrkamp (2018)  
Associate Dean of Admissions  
BA, Augustana University; MDiv, Wake Forest University

Susan Faust (2014)  
Assistant Dean of Admissions  
BA, MA, University of Arkansas at Fayetteville

Lowell Tillett (2014)  
Assistant Dean of Admissions  
BA, Wake Forest University; JD, Quinnipiac University

Thomas Ray (2014)  
Assistant Dean of Admissions, Diversity Admissions  
BA, Wake Forest University

Lando Pieroni (2018)  
Coordinator, International Admissions  
BA, Wake Forest University

Matthew Avara (2017)  
Admissions Counselor  
BS, Wake Forest University

Addie Folk (2019)  
Admissions Counselor  
BA, Wake Forest University

Cesar Grisales (2019)  
Admission Counselor  
BA, Wake Forest University

Yong Su An (2019)  
Admission Counselor  
BA, Wake Forest University

Michelle White (2019)  
Admissions Counselor  
BA, Wake Forest University

Christopher R. Franklin (2013)  
Admissions Business/Systems Analyst  
BS, University of Maryland

Terri E. LeGrand (2005)  
Director of Enrollment Compliance & Technology  
BS, Iowa State; JD, Wake Forest University

Thomas P. Benza (2006)  
Director of Financial Aid  
BA, BS, Appalachian State; MA, Wake Forest University

Milton W. King (1992)  
Associate Director of Financial Aid  
BA, MBA, Wake Forest University

Roberta L. Powell (2007)  
Assistant Director of Financial Aid  
BA, Asbury College; MS, Kentucky

Lauren Trethaway (2013)  
Assistant Director of Financial Aid & Student Employment Coordinator  
BS, North Carolina State University

Elizabeth G. Sandy (2013)  
Coordinator for Study Abroad, External Scholarships & State Grants  
BS, MA, Rider

Lisa A. Myers (1996)  
Financial Aid Counselor

Asia Parker (2019)  
Financial Aid Counselor  
BA, Wake Forest University

Marisa Hernandez (2020)  
Financial Aid Counselor  
BA, University of North Carolina at Chapel Hill; MSM Wake Forest University

John Royal (2017)  
Data Coordinator  
BA, Western Carolina University

Rhonda Myrick (2008)  
Reporting Analyst III  
BS, High Point University; MA, Appalachian State University

## Athletics

John Currie (2019)  
Director of Athletics  
BA, Wake Forest University; MS, Tennessee

Lindsey Babcock (2020)  
Deputy Director of Athletics, Internal Operations  
BS, Elmira College; MS, West Virginia University

Pete Paukstelis (2019)  
Associate Counsel/Senior Athletics Advisor for Strategy & Risk Management  
BA, University of Kansas; JD, University of Michigan

Jane Caldwell (1999)  
Senior Associate Athletic Director for Student-Athlete Services and Assistant to the Dean of the College  
BS, UNC-Greensboro; MA, Wake Forest University

Randy Casstevens (2012)  
Senior Associate Athletic Director for Finance

BS, MBA, Wake Forest University

Brad Darmofal (2004)  
Senior Associate Athletic Director for Finance  
BS, MBA, Wake Forest University

Barry Faircloth (2001)  
Senior Associate Athletic Director, Development  
BS, Wake Forest University

Murphy Grant (2019)  
Senior Associate Athletic Director, Sports Performance/Health Care Administrator  
BS, Quincy University; MS, Illinois State University

C. Todd Hairston (2005)  
Senior Associate Athletic Director for Compliance  
BS, Wake Forest University; MS, Meharry Medical College; PhD, Florida State

Rhett Hobart (2020)  
Associate Athletic Director, Fan Engagement and Brand Development  
BA, MBA Mississippi State University

Will Pantages (2019)  
Associate Athletic Director, Athletic Communications  
BA, Baldwin-Wallace College

Michael Piscetelli (2005)  
Associate Athletic Director, Principal Gifts  
BA, Wake Forest University

Ellie Shannon (2012)  
Associate Athletic Director  
BS, Grand Valley State; MS, Kansas State

Barbara Walker (1999)  
Deputy Director/SWA  
BS, MAEd, Central Missouri State

Ashley Wechter (2013)  
Assistant Athletic Director, Student-Athlete Development  
BS, Wake Forest University

## Campus Life

Penny Rue (2013)  
Vice President for Campus Life  
BA, Duke; MA, Ohio State; PhD, Maryland (College Park)

Andrea Bohn (1997)  
Associate Vice President, Campus Life Finance & Operations  
BS, Gardner Webb

Adam Goldstein (2014)  
Associate Vice President & Dean of Students  
BA, Indiana University of PA; MEd, University of Georgia; PhD, University of Georgia

Matthew Clifford (2010)  
Assistant Vice President & Dean of Residence Life and Housing  
BA, Davidson; MEd, University of South Carolina; EdD, University of North Florida

James D. Raper (2008)  
Assistant Vice President, Health & Wellbeing

BA, Colgate; MAEd, Wake Forest University; PhD, Syracuse

Regina G. Lawson (1989)  
Chief of University Police  
BS, UNC-Wilmington

Timothy L. Auman (2003)  
University Chaplain  
BA, Wofford College; MDiv, Duke; PhD, Interfaith Seminary/Mahidol University

Cecil D. Price (1991)  
Director of Student Health Service  
BS, MD, Wake Forest University

Joseph Cassidy (2016)  
Executive Director for Campus Fitness & Recreation  
BA, Bellarmine University; MS, Eastern Illinois; MBA, University of Notre Dame

Michael P. Shuman (1997)  
Director, Learning Assistance Center and Disability Services  
BA, Furman; MEd, South Carolina; PhD, UNC-Greensboro

Marian Trattner (2019)  
Interim Director, Office of Wellbeing  
BSW, MSW, University of Missouri

## Chaplain's Office

Timothy L. Auman (2001)  
Chaplain  
BA, Wofford College; MDiv, Duke

Kellee Monet (K. Monet) Rice (2012)  
Associate Chaplain  
BA, Louisiana State; MDiv, Princeton Theological Seminary

K. Virginia Christman (2015)  
Associate Chaplain  
BA, University of Richmond; MDiv, Fuller Theological Seminary

Elizabeth Orr (2014)  
Associate Chaplain, Catholic Life  
BA, Stonehill College; MA, Boston College School of Theology and Ministry

Gail H. Bretan (2014)  
Associate Chaplain, Jewish Life  
BS, Temple University; BBA, Northwood University; MS, University of Arizona; PhD, UNC-Greensboro

Naijla Faizi (2017)  
Associate Chaplain, Muslim Life  
BS, Wake Forest University, MS University of Pennsylvania

Peggy Beckman (1997)  
Office Manager  
BA, Central Bible College

## Finance and Administration

B. Hofler Milam (2010)  
Executive Vice President/CFO  
BS, MBA, Wake Forest University

Kenneth Basch (2008)  
Executive Director, Wake Forest Properties  
BA, Ohio State; MBA, Case Western Reserve

Dedee DeLongpré Johnston (2009)  
Chief Sustainability Officer  
Interim Chief Human Resources Officer  
BS, Southern California; MBA, Presidio

Mur K. Muchane (2015)  
Vice President, Information Technology/CIO  
BA, Warren Wilson College; MS, University of Tennessee

Emily G. Neese (2006)  
Vice President, Strategy & Operations  
BS, Wake Forest University

John J. Shenette (2014)  
Vice President, Facilities & Campus Services  
BS, Central New England College

Janet L. Williams (2018)  
Vice President for Finance  
BBA, University of Texas; MBA, University of North Texas

John K. Wise (2002)  
Associate Vice President, Hospitality & Auxiliary Services  
BS, Wisconsin (Stout)

## Global Affairs & Center for Global Programs and Studies

J. Kline Harrison (1990)  
Associate Vice President  
Associate Provost for Global Affairs and Kemper Professor of Business  
BS, Virginia; PhD, Maryland

Leigh Hatchett Stanfield (1999)  
Executive Director of Global Engagement and Administration  
BA, Wake Forest University

David F. Taylor (2005)  
Assistant Dean of Global Study Away  
BA, Princeton; MALS, Wake Forest University

Jessica A. Francis (2007)  
Director of Global Abroad Programs  
BA, St. Edward's; MALS, Wake Forest University

Nelson Brunsting (2008)  
Director of Global Research & Assessment  
BA, Wake Forest University; MA, Victoria University of Wellington, New Zealand; PhD, UNC-Chapel Hill

Kelia Hubbard (2016)  
Director of International Student & Scholar Services  
BA, UNC-Charlotte; MPA, Grand Canyon University

Blair Bocook (2017)  
Associate Director of International Student & Scholar Services  
BA, MA, Marshall

Porshe Chiles (2017)  
Associate Director of International Student & Scholar Services

BS, University of Texas, Tyler; MEd, University of North Texas

Michael J. Tyson (2010)  
Assistant Director for Global Abroad Programs  
BA, UNC-Charlotte; MEd, University of South Carolina

Janice W. Claybrook (2006)  
Assistant Director & Program Coordinator for Global AWAKEnings  
BA, UNC-Chapel Hill; MS, UNC-Greensboro

Sandra Lisle McMullen (2012)  
Assistant Director for Global Campus Programs  
BS, Ball State

Silvia Corraera (2014)  
Assistant to the Associate Provost of Global Affairs  
AA, LaGuardia Community College

Tara Grischow (2016)  
Senior Advisor for International Students and Scholars  
BA, Youngstown State; MA Youngstown State

Greta Smith (2018)  
Senior Advisor for International Students and Scholars  
BA, UNC-Greensboro

Rayna Minnigan (2017)  
International Student Advisor  
BS, Shaw University; MS, Georgetown University

Cody Ryberg (2016)  
Senior Study Abroad Advisor  
BA, Luther College; MS, St. Cloud State

Anna Marter (2016)  
Senior Study Abroad Advisor  
BFA, Tisch-New York University; MA, SIT Graduate Institute

Marcia Crippen (2017)  
Study Abroad Advisor  
BA, UNC-Charlotte; MEd, Old Dominion University

Sean McGlynn (2017)  
Study Abroad Advisor  
BA, Plymouth State

Ashley Brookes (2017)  
Study Abroad Advisor  
BA, Gettysburg; MA, Boston College

Taylor Burdette (2017)  
Study Abroad Advisor  
BA, Gettysburg; MA, Boston College

Kim Snipes (2008)  
Project Coordinator for Global Campus Programs  
Attended Bob Jones

Kara Rothberg (2017)  
Program Coordinator for Global Campus Programs  
BA, Emory University; MA, Teachers College, Colombia

Sarah Dale (2018)  
Data and Records Specialist  
BA, Rollins; MS, University of Texas, Austin

Christina Deloglos (2019)  
Office Administrator  
BA, National-Louis University

Sonali Kathuria (2019)  
Research Coordinator for Global Research & Assessment  
BA, University of North Carolina at Greensboro; BA, North Carolina State University

## Graylyn International Conference Center

John K. Wise (2002)  
Associate Vice President for Hospitality and Auxiliary Services  
BS, Wisconsin (Stout)

Alex Crist (2010)  
Director Parking and Transportation  
BS, University of Indianapolis

T. Matthew Pack (2004)  
Director of Conference Services  
BA Kentucky Wesleyan; MA, Murray State

Alyssa Armenta (2015)  
Marketing Manager  
BA, Salem College

Roger Brown (2015)  
Director of Food and Beverage  
Northern Arizona University

Shelley Brown (2010)  
Director of Sales  
BA, Austin Peay State

Mark McFetridge (2006)  
Director of Rooms  
BS, University of Florida

## Information Systems

Mur Muchane (2015)  
Vice President for Information Technology & CIO  
BA, Warren Wilson College; MS, University of Tennessee

Mary Jones (2015)  
Senior Director of IT Finance & Administration  
BA, UNC-Chapel Hill

Lynn McGowan (1998)  
Senior Director of Client Services  
BS, Wake Forest University

Rob Smith (2017)  
Senior Director of IT Infrastructure  
BA, College of William & Mary, USC-Columbia

Odi Iancu (2009)  
Director, Enterprise Systems & Cloud Platforms  
PhD, Delft University of Technology, the Netherlands

Steve Bertino (2018)  
Chief Information Security Officer  
BA, Rochester Institute of Technology; AAS, Monroe Community College

Hannah Inzko (2017)

Senior Director, Academic Technology  
BA, Pennsylvania State University; MAEd, University of Miami

David Eaton (2019)  
Director, Analytics & Data Governance  
BS, University of North Carolina at Greensboro; MBA, Queens University

Brent Babb (2015)  
Assistant Director IT Infrastructure  
AA, ECPI

Marty McGowan (1998)  
Assistant Director IT Infrastructure  
BS, UNC-Greensboro

Sarah Wojcik-Gross (2007)  
Assistant Director Client Services  
BA, Mansfield University; MSED, Elmira College

Mike Greco (2015)  
Assistant Director Client Engagement  
BS, Lenoir-Rhyne College

Anthony Hughes (2010)  
Assistant Director Enterprise Systems  
BS, Southern Illinois University

Jeffrey Teague (2011)  
Assistant Director Information Security  
BS, MS, North Carolina State University

Sophia Bredice (2015)  
Assistant Director Client Services  
BS, Wake Forest University; MS, University of Virginia

George Campbell (2019)  
Assistant Director Analytics & Data Governance  
BA, Wake Forest University; MA, Indiana University-Bloomington

Eudora Struble (2015)  
Assistant Director Technology Accessibility  
BA, University of Colorado, Boulder; MA, University of Chicago

Will Tomlinson (2012)  
Assistant Director IT Infrastructure  
BA, Elon University

Paul Whitener (2007)  
Assistant Director Digital Fabrication & Maker Education  
BA, University of North Carolina at Greensboro; AA, Forsyth Technical College

## Institutional Research

Philip G. Handwerk (2013)  
Director of Institutional Research  
BA, Wake Forest University; MS, NC State; PhD, Pennsylvania

Adam Shick (2001)  
Associate Director of Institutional Research  
BS, US Merchant Marine Academy; MA, Wake Forest University

Sara Gravitt (1996)  
Assistant Director of Institutional Research  
BS, High Point University

Jason Chen (2019)  
Data Scientist  
BS, Chinese Culture University; MBA Sun Yat-Sen University; PhD, University of Kentucky

## Investments

James J. Dunn (2009)  
Senior Adviser to the President and CEO and CIO, Verger Capital Management, LLC  
BS, Villanova

Craig O. Thomas (2003)  
Managing Director of Investments, Verger Capital Management, LLC  
BS, Alfred; MS, Syracuse

Vicki J. West (2006)  
Chief Operating Officer, Verger Capital Management, LLC  
BA, Lenoir-Rhyne

Jeffrey M. Manning (2015)  
Chief Financial Officer, Verger Capital Management, LLC  
BS, MS & MBA, Wake Forest University

## Legal Department

J. Reid Morgan (1979)  
Senior Vice President, General Counsel and Secretary of the Board of Trustees  
BA, JD, Wake Forest University

William K. Davis (2012)  
Senior Counsel  
AB, Davidson; MBA, UNC-Chapel Hill; LLB, Wake Forest University

Anita M. Conrad (1999)  
Counsel and Assistant Secretary of the Board of Trustees  
BA, Akron; JD, Wake Forest University

Dina J. Marty (2001)  
Deputy General Counsel  
BA, Drake; JD, Wake Forest University

K. Carter Cook (2004)  
Counsel  
BS, MBA, JD, Wake Forest University

Brian J. McGinn (2007)  
Associate Counsel  
BA, JD, Wake Forest University

Peter J. Paukstelis (2019)  
Associate Counsel  
BA, University of Kansas; JD, University of Michigan

## Libraries

Timothy Pyatt (2015)  
Dean, Z. Smith Reynolds Library  
AB, Duke University; MLIS, NC Central

Lauren Corbett (2008)  
Director, Resource Services, Z. Smith Reynolds Library  
BA, Davidson College; MLIS, UNC-Greensboro

Thomas P. Dowling (2012)



Director, Technologies, Z. Smith Reynolds Library  
 BM, MLIS, University of Michigan

Molly Keener (2006)  
 Director, Digital Initiatives & Scholarly Communication, Z. Smith Reynolds Library  
 BA, UNC-Chapel Hill; MLIS, UNC-Greensboro

Mary Beth Lock (2007)  
 Assistant Dean, Z. Smith Reynolds Library  
 BS, Wayne State; MLS, NC Central; MALS, Wake Forest University

Rosalind Tedford (1994)  
 Director, Research and Instruction, Z. Smith Reynolds Library  
 BA, MA, Wake Forest University; MLIS, UNC-Greensboro

Tanya Zanish-Belcher (2013)  
 Director, Special Collections and University Archives, Z. Smith Reynolds Library  
 BA, Ohio Wesleyan; MA, Wright State

Mikhaela Payden-Travers (2018)  
 Assistant Director, Library and College Development, Z. Smith Reynolds Library  
 BA, College of William and Mary; MA, University of San Diego

E. Parks Welch III (1991)  
 Director of the Coy C. Carpenter Library  
 BS, UNC-Chapel Hill; MBA, Wake Forest University; MLS, UNC-Greensboro

Christopher Knott (2012)  
 Associate Dean for Information Services and Technology, Professional Center Library  
 BA, Iowa; JD, Michigan; MLIS, Indiana

## Personal and Career Development

Andrew Chan (2009)  
 Vice President, Innovation and Career Development  
 BA, MBA, Stanford

Vicki L. Keslar (2009)  
 Office Operations Manager & Executive Assistant to the Vice President  
 BS, Indiana University of PA; MPM, Carnegie Mellon

Allison McWilliams (2010)  
 Director, Mentoring Resource Center & Alumni Career Development  
 BA, Wake Forest University; MA, PhD, Georgia

Amy Willard (2011)  
 Assistant Director, Career Education & Coaching  
 BA, NC State

Caleigh McElwee (2011)  
 Associate Director, Career Coaching, School of Business  
 BA, Wake Forest University; MS, EdS, UNC-Greensboro

Shan Woolard (2001)  
 Assistant Director, Career Education and Coaching  
 BA, Salem College; MS, UNC-Greensboro

Jessica Long (2014)  
 Assistant Director, Career Education & Coaching  
 BA Wake Forest, MS, UNCG

Cheryl Hicks (2014)

Assistant Director, Career Education & Coaching  
 BS, Texas A&M

Lauren Beam (2010)  
 Associate Director, Mentoring Resource Center & Alumni Career Development  
 BA, Wake Forest University; MS, UNC-Greensboro

Patrick Sullivan (1997)  
 Interim Director, Career Education & Coaching  
 BA, MBA, Wake Forest University

Heidi Robinson (2011)  
 Part-time Associate Professor of the Practice in Education  
 BA, Washington State; MA, Wake Forest University

Dana Hutchens (1991)  
 Employer Experience Manager  
 BS, UNC-Greensboro

Amy Bull (2013)  
 Employer Experience Manager  
 BS, Grove City College

Amy Wagner (1986)  
 Office Manager

ShaShawna McFarland (2010)  
 Receptionist  
 BS, Winston-Salem State

Rhonda Stokes (2007)  
 Associate Director, Family Business Center- Charlotte Metro  
 BA, Georgia

Polly Black (2010)  
 Director, Center for Innovation, Creativity and Entrepreneurship  
 BA, Vassar College; MA, Columbia; MBA, Virginia

Elisa Burton (1998)  
 Program Coordinator, Office of Innovation, Creativity and Entrepreneurship  
 BA, High Point

Michael A. Crespi (2004)  
 Sr. Associate Director, Career Coaching, School of Business  
 BA, BS, New Hampshire; MBA, Wake Forest University

Lori Sykes (2004)  
 Associate Director, Corporate Relations  
 BS, MBA, Appalachian State

Lisa Simmons (2002)  
 Associate Director, Employer Experience  
 BS, Rollins College; MALS, Wake Forest University

Mercy Eyadiel (2011)  
 Associate Vice President, Career Development & Executive Director  
 Corporate Engagement  
 BA, Southern Nazarene; MAEd, Oklahoma City

## University Advancement

Mark A. Petersen (2008)  
 Vice President for University Advancement

BA, Brandeis; MA, Southern California

Robert T. Baker (1978)

Senior Associate Vice President, University Development  
BA, MS, George Peabody (Vanderbilt)

Melissa N. Combes (1996)

Associate Vice President, Presidential Advancement and Liaison to the Trustees  
BA, Washington College; MBA, Wake Forest University

Brett Eaton (2010)

Senior Associate Vice President, Communications and External Relations and Executive Director of Wake Will Lead  
BA, Clemson; MBA, American

Michael Haggas (1994)

Assistant Dean of Development, College  
BA, Clarke University

Maria Henson (2010)

Associate Vice President and Editor-at-Large Wake Forest Magazine  
BA, Wake Forest University

Shaida Horner (1993)

Associate Vice President, Gift Planning  
BA, UNC-Chapel Hill; M.Acct., UNC-Chapel Hill; JD, Wake Forest University

Linda Luvaas (2009)

Associate Vice President, Corporate and Foundation Relations  
BA, Allegheny College; MA, Duke

Minta A. McNally (1978)

Associate Vice President, Office of Family Engagement  
BA, Wake Forest University

William T. Snyder (1988)

Associate Vice President, Alumni and Donor Services  
BA, Wake Forest University

Mary Tribble (1982)

Associate Vice President and Senior Advisor for Engagement Strategies  
BA, MA, Wake Forest University

T.J. Truskowski (2002)

Executive Director of Development, School of Business  
BS, Eastern Michigan University; MBA, Davenport University

Sheila Virgil (1988)

Assistant Dean of Development, School of Divinity  
BA, St. John's College; MNO, Case Western Reserve University

Paul Wingate (1992)

Assistant Dean of Development, School of Law  
BA, Wake Forest University; MBA, UNC-Greensboro

## University Registrar

Harold Pace (2010)

Assistant Provost for Academic Administration and University Registrar  
BS, Southern Arkansas; MS, East Texas State; PhD, Texas A&M

Michael Moore (2019)

Senior Associate Registrar

BA, Ohio University; MBA, Strayer University; PhD, Old Dominion University

Brooks Brown (2018)

Office Manager  
BS, MEd, East Carolina University

Margaret Clayton (2014)

Assistant Registrar  
BS, MS, East Carolina University

Trey Frye (2014)

Assistant Registrar  
BA, Gardner Webb University; MA, Wake Forest University

Fagueye Ndiaye-Dalmadge (2008)

Assistant Registrar  
BS, MBA, Southern Illinois  
Damian Patterson (2019)  
Data Services Specialist  
BA, Bridgewater College

Susan Parrott (2007)

Certification Officer  
BA, Duke University; JD, UNC-Chapel Hill

Shemeka Penn (2008)

Assistant Registrar  
BA, East Tennessee State; MA, Strayer

Candace Speaks (2010)

Academic Records Specialist

Sasha Suzuki (2006)

Assistant Registrar  
BA, MA, Wake Forest University

Richard Titus (2019)

Assistant Registrar  
BA, MA, UNC-Greensboro

Jarrett Zongker (2017)

Senior Systems Analyst  
BA, University of North Florida

## University Theatre

Jonathan Christman (2019)

Director of University Theatre  
AB, Franklin & Marshall College; MFA, University of Massachusetts at Amherst

Evan Shuster (2019)

Technical Director  
BA, Susquehanna University; MFA Virginia Tech

Leslie Spencer (2001)

Audience Services Coordinator  
BA, Salem College

Alice Barsony (2012)

Costume Studio Supervisor  
BFA, Rhode Island School of Design; MFA, UNC School of the Arts

Clare Parker (2018)

Costume and Wardrobe Assistant

BFA, Southern Oregon University; MFA, UNC School of the Arts

## Other Administrative Offices

Jarrold Atchison (2010)

Director of Debate

BA, MA, Wake Forest University; PhD, Georgia

Sam L. Beck (2008)

Director, Student Professional Development (EY Professional Development Center, School of Business)

BA, MA, Wake Forest University

C. Kevin Bowen (1994)

Director of Bands

BS, Tennessee Tech; MM, Louisville; PhD, Florida State

Paul Bright (2004)

Director of Art Galleries and Programming

BFA, South Carolina

Jessica Burlingame (2007)

Interim Curator of Art Collections

BA, Edinboro University of Pennsylvania; MA, UNC-Greensboro

Brian Gorelick (1984)

Director of Choral Ensembles

BA, Yale; MM, Wisconsin-Madison; DMA, Illinois

Andrew W. Gurstelle (2015)

Academic Director of the Museum of Anthropology

BA, University of Wisconsin-Madison; MA, PhD, University of Michigan

David Hagy (1995)

Director of Orchestra

BM, Indiana; MM, MMA, DMA, Yale

Katy J. Harriger (1995)

Faculty Director of the Wake Washington Program (Washington, D.C.)

BA, Edinboro State University; MA, PhD, University of Connecticut

Dedee Delongpré Johnston (2009)

Director of Sustainability

BS, Southern California; MBA, Presidio Graduate School

Peter D. Kairoff (1988)

Program Director of Casa Artom (Venice)

BA, California (San Diego); MM, DMA, Southern California

Benjamin T. King (2007)

Director of Interdisciplinary Programs (School of Business)

BA, Virginia; MBA, Wake Forest University

Jonathan A. McElderry (2016)

Assistant Dean of Students and Director of the Intercultural Center

BS, George Mason University; MEd, Ohio University; PhD, University of Missouri

Véronique McNelly (2002)

Faculty Director of the Dijon Program

BA, MA, University of Virginia

Martine Sherrill (1985)

Visual Resources Librarian and Curator of Print Collection

BFA, MLS, UNC-Greensboro

Peter M. Siavelis (1996)

Faculty Director of the Southern Cone Program (Argentina and Chile)

BA, Bradley; MA, PhD, Georgetown

Kathy Smith (1981)

Faculty Director of Worrell House (London)

BA, Baldwin-Wallace University; MA, PhD, Purdue University

Rebecca Thomas

Faculty Director of Flow House (Vienna)

BA, MA, University of California-Los Angeles; PhD, Ohio State University

# COURSES A-Z

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## A

- Accountancy (ACC)
- African Studies (AFS)
- American Ethnic Studies (AES)
- Anthropology (ANT)
- Arabic (ARB)
- Art (ART)

## B

- Biochemistry & Molecular Biology (BMB)
- Biology (BIO)
- Business & Enterprise Mgmt (BEM)
- Business (BUS)

## C

- Chemistry (CHM)
- Chinese (CHI)
- Classics (CLA)
- Communication (COM)
- Computer Science (CSC)
- Counseling (CNS)
- Creative Writing (CRW)

## D

- Dance (DCE)

## E

- E. Asian Languages and Culture (EAL)
- E. Asian Studies (EAS)
- Economics (ECN)
- Education (EDU)
- Engineering (EGR)
- English (ENG)
- Entrepreneurship (ENT)
- Environmental Program (ENV)

## F

- Film Studies (FLM)
- Finance (FIN)
- First Year Experience (FYE)
- First Year Seminar (FYS)
- French (FRH)

## G

- German (GER)
- German Studies (GES)
- Greek (GRK)

## H

- Health and Exercise Science (HES)
- Health Policy & Administration (HPA)
- Hindi-Urdu (HNU)
- History (HST)
- Honors (HON)
- Humanities (HMN)

## I

- Interdisciplinary Studies (IND)
- International Studies (INS)
- Italian (ITA)
- Italian Language and Culture in English (IAS)

## J

- Japanese (JPN)
- Journalism (JOU)

## L

- Latin (LAT)
- Latin American Studies (LAS)
- Library Science (LIB)
- Linguistics (LIN)

## M

- Mathematics (MST)
- Middle East & South Asia Studies (MES)
- Military Science (MIL)
- Music (MUS)

## N

- Near Eastern Lang. & Lit. (NLL)
- Neuroscience (NEU)

## P

- Philosophy (PHI)
- Physics (PHY)
- Politics&International Affairs (POL)
- Portuguese (PTG)
- Psychology (PSY)

## R

- Religion (REL)
- Russian & E. European Studies (REE)
- Russian (RUS)

## S

- Sanskrit (SKT)
- Self Instructional Language (SIL)
- Sociology (SOC)
- Spanish (SPA)

- Sports Medicine (SPM)
- Statistics (STA)

## T

- Theatre (THE)

## W

- Washington DC Internship (WDC)
- Women's and Gender Studies (WGS)
- Writing Courses (WRI)

# Accountancy (ACC)

### ACC 111. Introductory Financial Accounting. (3 h)

Introduction to financial accounting and reporting, including the role of financial information in business decisions, the basic financial statements, and the processes used to prepare these financial statements. Students are introduced to the accounting and reporting issues associated with an organization's financing, investing, and operating activities. Sophomore standing. P-Sophomore standing; minimum cumulative GPA 2.85; or POI.

### ACC 211. Intermediate Accounting I. (4 h)

Study of the conceptual framework underlying financial accounting in the United States as well as the financial accounting standards setting process and the basic corporate financial statements. Financial accounting and reporting issues associated with receivables, inventories, property, plant, and equipment, and intangible assets are also examined. P-minimum of C in ACC 111.

### ACC 212. Intermediate Accounting II. (4 h)

Examination of financial accounting and reporting issues associated with current liabilities and contingencies, long-term liabilities, stockholders' equity, dilutive securities and earnings per share, income taxes, pensions, and postretirement benefits, leases, financial statement errors, and the statement of cash flows. P-Minimum of C in ACC 211.

### ACC 221. Introductory Management Accounting. (3 h)

Study of the concepts fundamental to management accounting which aid in decision-making, performance evaluation, and planning and control. The topics covered include product costing systems, budgeting, differential and breakeven analysis, responsibility accounting, cost allocation, and management accounting reports. P-Minimum of C in ACC 111.

### ACC 237. Taxes and Their Role in Business and Personal Decisions. (3 h)

Review of legal and accounting concepts associated with the federal taxation of personal income. Topics examined include the regular and alternative minimum tax models as well as gross income, capital gains, property transactions, deductions, and credits. P or C-Accounting 211 or POI.

### ACC 311. Advanced Financial Accounting. (3 h)

A comprehensive study of business combinations, the equity method of accounting for investments in common stock, and consolidated financial statement preparation. Also covered are accounting theory as applied to special problems such as accounting for partnerships and international accounting issues including foreign currency financial statement translation. In addition, government and nonprofit accounting are introduced in this course. P-ACC 211 and 212 with a grade of C or better.

### ACC 321. Accounting for Managerial Decision Making. (3 h)

Provides students with advanced exposure to topics in cost structure management, planning, control, and decision making. Primary emphasis is placed on developing students' appreciation for how financial modeling and strategic analysis work together in unified decision making. To develop students as financial leaders, the foundation of the course will be the Information Value Chain promulgated by accounting academic researchers (e.g. Blocher 2009) and accounting practitioner organizations (Institute of Management Accountants). P-ACC 221 with a grade of C or better.

### ACC 351. Accounting Information Systems. (3 h)

Study of the design and operation of accounting systems including the revenue, expenditure, and administrative transaction cycles. Emphasis is on the necessary controls for reliable data. P-BEM 251, and a minimum of C in ACC 212; or POI.

### ACC 352. Introduction to Auditing. (3 h)

Examination of basic auditing concepts and practices, and the auditor's professional responsibilities. Emphasis is on auditing standards and the auditing procedures commonly used in public accounting. P-minimum of C in ACC 212; C-ACC 351; or POI.

### ACC 378. Individualized Reading and Research. (1-3 h)

Directed study in specialized areas of accountancy. P-POI.

### ACC 390. Professional and Ethical Responsibilities of Accountants. (1.5 h)

This course begins the process of moving students along a continuum from student to emerging accounting professional. Students develop an understanding of the accounting profession's broad societal purposes, as well as its ethical and professional standards and practices, along with an understanding of their various responsibilities as professional accountants - to the profession, to their clients, and to the public at large. Students reflect on the meaning and demands of professional accounting practice so as to develop an emerging professional identity consistent with the profession's broad purposes and ethical standards and practices. P-Senior standing or POI.

### ACC 391. Professional Accounting Internship. (3 h)

Professional accounting field work, under the direction of a faculty member. Students gain relevant practical experience which builds on prior coursework and provides an experiential knowledge base for coursework. Pass/Fail. P-ACC 390. C-ACC 392.

### ACC 392. Professional and Ethical Responsibilities of Accountants - Internship Practicum. (1.5 h)

Students apply, reinforce, and extend the themes and topics of ACC 390 in the context of a professional accounting internship. P-ACC 390.

### ACC 393. Professional and Ethical Responsibilities of Accountants - Case Study Practicum. (1.5 h)

Students use a combination of historical and fictional case studies to apply, reinforce, and extend the themes and topics of ACC 390. P-ACC 390 (Not open to students who have taken ACC 392)

# African Studies (AFS)

### AFS 220. Special Topics in African Studies. (1-3 h)

Subject varies with instructor. May be repeated for credit if topic varies.

### AFS 250. Seminar in African Studies. (3 h)

Interdisciplinary investigation of important issues related to Africa's past and present.

## American Ethnic Studies (AES)

### **AES 232. The American Jewish Experience. (3 h)**

An interdisciplinary course exploring Jewish immigration to America with a primary focus on the nineteenth and twentieth centuries.

### **AES 234. Ethnicity and Immigration. (3 h)**

An exploration of the socio-historical dynamics of the peopling of America in the nineteenth and twentieth centuries. (CD)

### **AES 236. Multi-Ethnic Dance. (3 h)**

Exploration of the cultural importance of dance in major ethnic groups in American society. Also listed as DCE 236. (CD)

### **AES 251. Race and Ethnic Diversity in America. (3 h)**

Different race and ethnic experiences are examined through an institutional approach that examines religion, work, schooling, marriage patterns, and culture from cross-cultural perspective. Grand theoretical schemes like the "melting pot" are critiqued for their relevance in an age of new cultural expectations among the many American ethnic groups. Also listed as WGS 251. (CD)

### **AES 265. Culture and Religion in Contemporary Native America. (3 h)**

Interdisciplinary survey of American-Indian culture, including the arts and literature, religions, and historical changes. Special emphasis is placed on the impact of the Conquista, encounters with Northern Atlantic societies, and contemporary developments. Also listed as REL 265 and HMN 285. (CD)

### **AES 300. American Ethnic Literature and Film. (3 h)**

Through a discussion of cinematic and literary works from the Caribbean, North Africa, and sub-Saharan Africa, this course explores how artists have created a space in which to find their voice and cultural identity within both a global and personal history.

### **AES 310. Race, Class, and Gender in a Color-blind Society. (3 h)**

Examines issues surrounding race, class, and gender in the United States. Topics include income and wealth, theories of discrimination, public education, gender bias, and patterns of occupational and industrial segregation. Also listed as EDU 310.

### **AES 341. Africans in the Atlantic World, 1750-1815. (3 h)**

Explores Africans' experience in the Atlantic world (Africa, Europe and the Americas) during the era of the slave trade by examining their encounters with Indians and Europeans and their adjustment to slave traders in West Africa. Also listed as HST 341. (CD)

### **AES 357. Studies in Chicano/a Literature. (3 h)**

Writings by Americans of Mexican descent in relation to politics and history. Readings in literature, literary criticism, and socio-cultural analysis. Also listed as ENG 357. (CD)

### **AES 358. The Italian Experience in America. (3 h)**

Explores issues of ethnicity and identity in the Italian-American experience. A central goal of this course is to understand the inter-relationship of social, economic and political factors that impinge on this large European ethnic group.

### **AES 370. Immigration Practices in the U.S. and the European Union. (3 h)**

Explores the history and theory of immigration practices in the U.S. (after 1800) and the European Union (after its establishment in 1957) and compares the discourses and public policies in the two regions.

### **AES 387. African-American Fiction. (3 h)**

Selected topics in the development of fiction by American writers of African descent. Also listed as ENG 387. (CD)

### **AES 389. African-American Poetry. (3 h)**

Readings of works by American poets of African descent in theoretical, critical, and historical contexts. Also listed as ENG 389. (CD)

### **AES 390. Special Topics. (1.5, 3 h)**

American ethnic studies topics of special interest. May be repeated for credit if topic varies.

### **AES 396. Independent Study. (1-3 h)**

Independent projects in American Ethnic Studies which either continue study begun in regular courses or develop new areas of interest. A maximum of 3 hours may apply to the minor. By prearrangement.

## Anthropology (ANT)

### **ANT 111. People and Cultures of the World. (3 h)**

A representative ethnographic survey of worldwide cultures and major concepts in cultural anthropology taught through case studies. Credit toward the major or minor not given for both ANT 111 and ANT 114. (CD, D)

### **ANT 111G. People and Cultures of World. (3 h)**

A representative ethnographic survey of worldwide cultures and major concepts in cultural anthropology taught through case studies. Same as ANT 111, and also meets the geography requirement for teaching licensure candidates. (CD, D)

### **ANT 112. Introduction to Archaeology. (3 h)**

Overview of the field of archaeology and its place within anthropology. Includes coverage of methods, theory, history of the field, and discussions of major developments in world prehistory (CD, D)

### **ANT 113. Introduction to Biological Anthropology. (3 h)**

Introduction to biological anthropology, including human biology, human variation, human genetics, human evolution, and primatology. (D)

### **ANT 114. Introduction to Cultural Anthropology. (3 h)**

Investigates and interprets the cultural diversity of the world's people, through an understanding of economic, social, and political systems, law, and religion; language and culture; gender, race, ethnicity, kinship and the family; and globalization and culture change. Credit toward the major or minor not given for both ANT 111 and ANT 114. (CD, D)

### **ANT 150. Introduction to Linguistics. (3 h)**

The social phenomenon of language: how it originated and developed, how it is learned and used, its relationship to other kinds of behavior; types of language (oral, written, signed) and language families; analysis of linguistic data; social issues of language use. Also listed as LIN 150. (CD, D)

### **ANT 190. Introduction to Museum Studies. (3 h)**

Survey of museum history and theory. Covers object collections, curation, exhibit design, and cultural issues in museums. Does not count toward the major or minor in anthropology. (D)

### **ANT 305. Museum Anthropology. (3 h)**

Examines the historical, social, and ideological forces shaping the development of museums including the formation of anthropological collections and representation, and the intellectual and social challenges facing museums today. P - ANT 111 or 112 or 114, or POI.

### **ANT 307. Collections Management Practicum. (1.5 h)**

The principles of collections management including artifact registration, cataloging, storage, and handling; conservation issues and practices; disaster planning and preparedness; and ethical issues will be covered through lectures, readings, workshops, and hands-on use of the Museum's collections.

**ANT 308. Archaeological Theory and Practice. (3 h)**

Examination of contemporary archaeological topics through participation in the formulation and implementation of an archaeological research design. Building knowledge relevant to contemporary society through understanding the interdependent nature of archaeological theory and method.

**ANT 315. Artifact Analysis and Laboratory Methods in Archaeology. (4 h)**

An introduction to methods for determining the composition, age, manufacture, and use of different prehistoric and historic artifact types. Techniques for reconstruction of past natural environments from geological or ecofact samples. Exploration of date display tools including computer-based illustration, and archeological photography. P-ANT 111 or 112 or 114, or POI.

**ANT 318. Prehistory and Archaeology of Europe. (3 h)**

Problem-based survey of the archaeological record of Europe. Complex interrelationships of material culture, economy, ideology, and social life from earliest peopling to the late Iron Age. Offered only in WFU Study Abroad programs.

**ANT 325. Roots of Racism: Race and Ethnic Diversity in the U.S. (3 h)**

Examines biological myths of race and race as a social construction; historical, economic, and political roots of inequalities; institutions and ideologies that buttress and challenge power relations; and implications of anthropological teaching and research for understanding social class and race discrimination in the U.S. (CD)

**ANT 327. Global Justice and Human Rights in Latin America. (3 h)**

Examines anthropological understandings of human rights, with emphasis on activism and rights-in-practice in Latin America. Explores how human rights are understood, mobilized, and reinterpreted in specific contexts. Investigates how anthropologists negotiate tensions between culture and rights, universalism and relativism, and advocacy and neutrality. (CD)

**ANT 329. Feminist Anthropology. (3 h)**

Examines cultural constructions of gender from a cross-cultural perspective and the relationship between feminism and anthropology through time. Emphasizes how varied forms of feminisms are constituted within diverse social, cultural, and economic systems. Students consider how feminist anthropologists have negotiated positions at the intersection of cultural and human rights. Also listed as WGS 329.

**ANT 332. Anthropology of Gender. (3 h)**

Focuses on the difference between sex, a biological category, and gender, its cultural counterpart. An anthropological perspective is used to understand both the human life cycle and the status of contemporary women and men worldwide. In section one, topics include evolution and biological development, sexuality and reproduction, parenting, and life cycle changes. The second section takes students to diverse locations, including Africa, South Dakota, China, India, and the Amazon for a cross-cultural comparison examining roles, responsibilities, and expectations, and how these interact with related issues of class and race. (CD)

**ANT 333. Language and Gender. (3 h)**

Uses an anthropological perspective to examine relationships among language structure, language use, persons, and social categories. Also listed as LIN 333.

**ANT 334. People and Cultures of South Asia. (3 h)**

Survey of the people and cultures of the Indian subcontinent in the countries of Afghanistan, Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka. The course reviews major topics of interest to anthropologists, including prehistory, history and politics, religion, social organization, caste, gender, development, and population. (CD)

**ANT 335. Anthropology of Space and Place in the U.S. (3, 4 h)**

Course examines the spatial dimensions of culture by focusing on housing disparities in the U.S. Particular attention is paid to the cultural, gendered, economic, political, and regional contexts of housing policies and the impact policies have on children, families and communities. Course includes an optional Service-Learning community asset mapping assignment of a local Winston-Salem neighborhood.

**ANT 336. Myth, Ritual and Symbolism. (3 h)**

Explores how people envision and manipulate the supernatural in cross-cultural perspective. Emphasizes dynamic aspects of religious beliefs and practices. Also listed as REL 304. P-ANT 111 or 114 or POI. (CD)

**ANT 337. Economic Anthropology. (3 h)**

Examines the relationship between culture and the economy and its implications for applied anthropology. The variable nature and meaning of economic behavior will be examined in societies ranging from non-industrial to post-industrial. Discusses the impact of economic development programs, foreign aid and investment, technology transfer, and a variety of other economic aid programs. P-ANT 111 or 112 or 113 or 114, or POI.

**ANT 339. Culture and Nature: Introduction to Environmental Anthropology. (3 h)**

Exploration of humanity's "place" in the cosmos, focusing on different worldviews of nature and culture. Case studies from anthropology, archeology, and environmental science examine conceptions of technology, resources, environment, and ownership in the context of environmental change, "natural" disasters, and resource scarcity. (CD)

**ANT 340. Anthropological Theory. (4 h)**

Critical review of the major anthropological theories of humans and society. The relevance and significance of these theories to contemporary anthropology are discussed. P-ANT 112 and 113 and 114, or POI.

**ANT 342. Applied Anthropology. (3 h)**

Explores the application of anthropological concepts and methods in the understanding of contemporary problems stemming from cultural diversity, including competing social and economic development models and ideologies of terror. Emphasis is on conflict and change in developing areas but also considers the urban experiences. (CD)

**ANT 347. Warfare and Violent Conflict. (3 h)**

Seminar focusing on the causes and nature of warfare and violent group interaction across cultures and through time. Compares case studies from around the globe and of varying sociopolitical organization, past and present. Includes explorations of primate behavior, forms of warfare, and competing theoretical explanations for its existence and for particular occurrences.

**ANT 350. Language, Indigeneity and Globalization. (3 h)**

Taking a global case-study approach, this seminar explores the role language plays in contemporary identity formation and expression, from indigenous to transnational contexts. Addresses relationships among language and colonialism, postcolonialism, nationalism, cultural revitalization, standardization, social and economic inequality, boundary-formation, and processes of cultural inclusion and exclusion. Also listed as LIN 350. (CD)

**ANT 353. Language in Education. (3 h)**

This seminar explores the role of language in educational contexts; includes the study of bilingual and bicultural education, second language education, cross-cultural education, and communication in the classroom. Service-learning component. Also listed as EDU 353. (CD)

**ANT 354. Field Methods in Linguistic Anthropology. (4 h)**

Trains students in basic skills of collecting and analyzing linguistic data at the levels of phonetics-phonology, grammar, lexico-semantics, discourse, and sociocultural context. Students will learn about the research questions that drive linguistic fieldwork as well as the relevant methods, tools, and practical and ethical concerns. Also listed as LIN 354. P-ANT/LIN 150 or POI.

**ANT 355. Language and Culture. (3 h)**

Covers theoretical and methodological approaches to the study of language and culture, including: semiotics, structuralism, ethnoscience, the ethnography of communication, and sociolinguistics. The topics include: linguistic relativity; grammar and worldview; lexicon and thought; language use and social inequality; language and gender; and other areas. Also listed as LIN 355. (CD)

**ANT 358. Native Peoples of North America. (3 h)**

Ethnology and ethnohistory of the indigenous peoples and cultures of North America since European contact. Explores historic and modern cultures, social and political relationships with Euroamericans, and social justice. (CD)

**ANT 360. Anthropology of Global Health. (3 h)**

A critical introduction to the interdisciplinary field of global health, focusing on contributions from medical anthropology. Compares a diversity of health experiences and evaluates interventions across the globe. Explores how biocultural, political, and economic forces shape patterns of illness and disease with special attention to improving the health of the world's most vulnerable citizens.

**ANT 361. Evolution of Human Behavior. (3 h)**

The application of Darwinian principles to the study of human nature and culture. Considers the existence, origin, and manifestation of human behavioral universals and the theoretical and practical implications of individual variability.

**ANT 362. Medical Anthropology. (3 h)**

Examines Western and non-Western conceptions of health, illness, the roles of patient and healer, and the organization of health in Western and non-Western cultures. Service learning optional. P-ANT 111 or 114, or POI. (CD)

**ANT 363. Primate Behavior and Biology. (3 h)**

Examines the evolution and adaptations of the order Primates. Considers the different ways that ecology and evolution shape social behavior. A special emphasis on the lifeways of monkeys and apes.

**ANT 364. Primate Evolutionary Biology. (3 h)**

Examines the anatomy, evolution, and paleobiology of members of the order Primates. Emphasis is placed on the fossil evidence for primate evolution. Major topics covered include: primate origins, prosimian and anthropoid adaptations, patterns in primate evolution, and the place of humans within the order Primates.

**ANT 366. Human Evolution. (3 h)**

The paleontological evidence for early human evolution, with an emphasis on the first five million years of biocultural evolution.

**ANT 367. Human Biological Diversity. (3 h)**

Seminar focusing on current issues in human biological diversity. Special emphasis on the nature of human variation, and the relationship between human biological diversity and human behavioral diversity. Students learn what is known about how modern human biological variation is patterned and investigate how this variation is interpreted culturally.

**ANT 368. Human Osteology. (4 h)**

Survey and analysis of human skeletal anatomy, emphasizing archeological, anthropological, and forensic applications and practice. Lab-4 hours.

**ANT 370. Origins to Empires: The Archaeology of Africa and Eurasia. (3 h)**

Survey of human prehistory from the earliest hominin social behaviors to the rise of cultural complexity and stratified societies in Africa, Asia, and Europe. Detailed examination of the cultural evolution of state societies within important contexts of past environmental, social, and political change. (CD)

**ANT 372. Environmental Archaeology. (3 h)**

Survey of scientific approaches for reconstructing and interpreting the interactions between past human populations and their environments. Integrates geoarchaeological, archaeobotanical, zooarchaeological, and geochronological methods with anthropological understandings of human construction and experience of environment. Problem-based field activities provide experience applying research techniques and anthropological theory.

**ANT 374. North American Archaeology. (3 h)**

The development of indigenous cultures in North America, from the earliest arrival of people to European contact as outlined by archeological research, with an emphasis on ecology and sociocultural processes. (CD)

**ANT 378. Conservation Archeology. (1.5 h)**

A study of the laws, regulations, policies, programs, and political processes used to conserve prehistoric and historic cultural resources.

**ANT 380. Anthropological Statistics. (3 h)**

Basic statistics, emphasizing application in anthropological research. (QR)

**ANT 381. Field Program in Anthropological Archaeology. (3 h)**

Integrated training in archeological field methods and analytical techniques for researching human prehistory. Students learn archeological survey, mapping, excavation, recording techniques, and artifact and ecofact recovery and analysis. P-ANT 111 or 112 or 113 or 114 or POI. (D)

**ANT 382. Field Program in Anthropological Archaeology. (3 h)**

Integrated training in archeological field methods and analytical techniques for researching human prehistory. Students learn archeological survey, mapping, excavation, recording techniques, and artifact and ecofact recovery and analysis. P-ANT 111 or 112 or 113 or 114 or POI. (D)

**ANT 383. Field program in Cultural Anthropology. (3 h)**

The comparative study of culture and training in ethnographic and cultural analysis carried out in the field. P-ANT 111 or 112 or 113 or 114 or POI. (CD, D)

**ANT 384. Field Program in Cultural Anthropology. (3 h)**

The comparative study of culture and training in ethnographic and cultural analysis carried out in the field. P-ANT 111 or 112 or 113 or 114 or POI. (CD, D)

**ANT 385. Special Problems Seminar. (3 h)**

Intensive investigation of current scientific research within the discipline. The course concentrates on problems of contemporary interest.

**ANT 386. Special Problems Seminar. (3 h)**

Intensive investigation of current scientific research within the discipline. The course concentrates on problems of contemporary interest.



**ANT 387. Ethnographic Research Methods. (4 h)**

Designed to familiarize students with ethnographic research methods and their application. Considers the epistemological, ethical, political, and psychological aspects of research. Field experience and data analysis. P-ANT 111 or 114 or POI.

**ANT 390. Student-Faculty Seminar. (4 h)**

A review of contemporary problems in the fields of archeology, linguistics, and biological and cultural anthropology. Senior standing recommended. P-ANT 112, 113 and 114, or POI.

**ANT 391. Internship in Anthropology. (1-3 h)**

An internship course designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member. P-POI.

**ANT 392. Internship in Anthropology. (1-3 h)**

An internship course designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member. P-POI.

**ANT 393. Community-Based Research or Service-Learning in Anthropology. (1-3 h)**

Semester experience to be taken in conjunction with another anthropology course. Involves the application of anthropological methods and theory within a community-based research project or service-learning framework.

**ANT 394. Mentored Research in Anthropology. (1-3 h)**

Undergraduate research mentored by faculty and involving intensive investigation of an anthropological problem. P-POI.

**ANT 395. Honors Thesis in Anthropology. (1-3 h)**

Research, analysis, and writing of an Honors Thesis required for graduation with departmental honors to be carried out under the supervision of a departmental faculty member. Senior standing required. P-POI.

**ANT 398. Individual Study. (1-3 h)**

A reading or research course designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member. P-POI.

**ANT 399. Individual Study. (1-3 h)**

A reading or research course designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member. P-POI.

## Arabic (ARB)

**ARB 111. Elementary Arabic I. (3 h)**

The first semester of a two-semester course designed for students with no or very limited knowledge of the language. Introduction to Arabic sounds and script as well as basic grammar, with oral and written drills and reading of simple texts. Focus is on laying the foundation for reading, writing, listening, and speaking skills in Modern Standard Arabic.

**ARB 112. Elementary Arabic II. (3 h)**

The second semester of a two-semester course designed for students with no or very limited knowledge of the language. Mastery of Arabic sounds and script is assumed. Building of vocabulary and grammar through oral and written drills and reading of simple texts. Focus is on developing proficiency in reading, writing, listening, and speaking skills in Modern Standard Arabic. P-ARB 111.

**ARB 153. Intermediate Arabic I. (4 h)**

Review of grammar and focus on the acquisition of more complex grammatical structures, vocabulary building, and expansion of reading, writing, listening, and speaking skills in Modern Standard Arabic. P-ARB 112.

**ARB 201. Intermediate Arabic II. (3 h)**

Further building of vocabulary and grammar and expansion of reading, writing, listening, and speaking skills in Modern Standard Arabic. P-ARB 153.

**ARB 218. Standard Arabic Conversation I. (3 h)**

A language course based on cultural material intended to develop students' aural skills and oral proficiency in Modern Standard Arabic by increasing vocabulary and reinforcing command of grammar. P-ARB 153.

**ARB 219. Standard Arabic Conversation II. (3 h)**

A continuation of ARB 218. P-ARB 218 or POI.

**ARB 221. Colloquial Arabic Conversation I. (3 h)**

Focus on a particular regional dialect of Arabic (e.g., Egyptian, Levantine, Iraqi, Gulf, or North African) to give students the listening and speaking skills necessary to communicate in everyday language in informal situations. Designed for students with no knowledge of the particular dialect being taught. Course may be repeated for credit for a different Arabic dialect. P-ARB 153 or POI.

**ARB 222. Colloquial Arabic Conversation II. (3 h)**

A continuation of ARB 221. Designed for students with elementary knowledge of the dialect being taught. Course may be repeated for credit for a different Arabic dialect. P-ARB 221 in the same dialect or POI.

**ARB 230. Upper Intermediate Arabic I. (3 h)**

With an emphasis on speaking and writing, this course will develop students' oral and written proficiency on an upper intermediate level of fluency. P-ARB 201.

**ARB 231. Upper Intermediate Arabic II. (3 h)**

A continuation of ARB 230. P-ARB 230.

**ARB 288. Individual Study in Arabic Language or Cultural Studies. (1-3 h)**

Course may be repeated for a total of 6 credit hours. P-POI.

**ARB 301. Advanced Arabic I. (3 h)**

This course will develop students' oral, written, and reading proficiency on an advanced level of fluency. P-ARB 231.

**ARB 302. Advanced Arabic II. (3 h)**

A continuation of ARB 301. P-ARB 301.

**ARB 305. Special Topics in Arabic. (1-3 h)**

Arabic language study with a particular limited focus, e.g., Quranic Arabic, composition, grammar, novels. May be repeated for credit if topic varies. P-ARB 153, 201, or POI depending on the topic.

**ARB 306. Special Topics in Arabic Studies. (3 h)**

Course in English offering in-depth study of particular aspects of Arabic language, literature or culture not included in the regular course offerings. May be repeated for credit when topics vary.

**ARB 324. Introduction to Arabic Literature. (3 h)**

Reading of selected texts in Arabic, ranging from pre-Islamic poetry to the Quran and Prophetic Hadiths to medieval fiction, nonfiction works like biographies and travel literature, and modern short stories, for the purpose of building vocabulary and reading skills, expanding knowledge of grammatical structures and literary genres, and deepening cultural understanding. P-ARB 231 or equivalent.

**ARB 325. Multimedia Arabic. (3 h)**

With a focus on current affairs in the Middle East and the Arabic-speaking world, students will read, listen to, and view authentic materials from various print and electronic media in Arabic. P - ARB 231.

**ARB 350. Classical Arab-Islamic Civilization through Literature. (3 h)**

Examines how Arabs and Muslims in classical and medieval times (600-1400 A.D.) approached the pleasures of worldly life, organized their social domain by ethics/law, constructed their worldview through religion, reacted to nature by science, and attempted to resolve their cultural inconsistencies through theology, philosophy, and mysticism. Also listed as HMN 350. (CD, D)

**ARB 351. Modern Arab World through Literature. (3 h)**

Study of the global significance of the 330 million Arabs as the fourth largest community in the world and Arabic as the fifth most widely spoken language from a historical and thematic perspective (1400 A.D to the present) through literary selections covering the periods of premodernity, Arab renaissance, colonialism, state-building, and globalization. Also listed as ARB 351. (CD, D)

## Art (ART)

**ART 101. Engaging with Art. (1.5 h)**

An opportunity to experience and reflect analytically on the arts in the cultural and intellectual life at Wake Forest, with an emphasis on art exhibitions, lectures, and visiting artist talks. Pass/fail only. May not be repeated.

**ART 103. History of Western Art. (3 h)**

The study of visual arts of Europe and America as they relate to history, religion, and the ideas that have shaped Western culture. Explores masterpieces from the ancient world to the present. (D)

**ART 104. Topics in World Art. (3 h)**

An examination of the visual arts in selected world cultures, with discussions of techniques, styles, broader cultural contexts, and confrontations with varying traditions. Topics may include one or more of the following: the arts of China, Japan, India, Pakistan, Bangladesh, Africa, Islamic cultures, or the indigenous cultures of the Americas. (CD, D)

**ART 105. History of World Architecture. (3 h)**

Examines architectural monuments in selected world cultures with discussions of the planning, siting, design, construction, patronage, historical impact, and broader cultural context. (CD, D)

**ART 110. Topics in Studio Art. (1-3 h)**

Studio art courses as determined by individual instructors. (D only if taken for 3h).

**ART 111. Introduction to Studio Art Fundamentals. (3 h)**

Introduces elements and principles of visual language through hands-on experimentation and critical thinking. (D)

**ART 112. Introduction to Painting. (3 h)**

Introduces the fundamentals of the contemporary practice of oil painting. No prior painting experience required, although prior studio art experience is recommended. (D)

**ART 113. Drawing with Digital Integration. (3 h)**

Introduces principles of art and drawing with integration of digital media. Broadens the scope of studio exploration and critical thinking. Introduces raster and vector graphics software. (D)

**ART 114. Introduction to Film and Video Art. (3 h)**

Introduces historical, aesthetic, and technical principles of contemporary video art and film production. Students will work in groups to produce and experimental film and work individually to create a video that focuses on a personal story. (D)

**ART 115. Introduction to Sculpture. (3 h)**

Introduces basic sculptural styles and multimedia, with emphasis on contemporary concepts. Prior studio experience is recommended. (D)

**ART 117. Introduction to Printmaking. (3 h)**

Introduces one or more of the following major divisions of fine art printmaking: relief (woodcuts and linoleum cuts), intaglio (hand engraving and acid etching methods on copper), lithography from limestone slabs, monotype. (D)

**ART 118. Introduction to Drawing. (3 h)**

Drawing fundamentals emphasizing composition, value, line, and form. (D)

**ART 119. Introduction to Darkroom Photography. (3 h)**

An introduction to designing, processing and critiquing black and white photographs, including 35mm camera techniques and lighting. (D)

**ART 120. Introduction to Digital Photography. (3 h)**

An introduction to designing, processing, and critiquing digital images printed with digital media. Includes camera techniques and lighting. (Digital SLR camera required) (D)

**ART 121. Design Studio: Ethics and Aesthetics. (3 h)**

Addresses diverse social, environmental, and economic problems through the design of specific objects and environments in a collaborative studio. A variety of approaches to design development are covered, along with prototyping, testing, and presentation. (D)

**ART 122. Design Studio: Visualization of Ideas. (3 h)**

Employing a variety of different image generating techniques, students produce visual representations which communicate content based upon specific assigned subjects. Imaging methods may include illustration, typography, photography, video etc. as determined by the instructor. (D)

**ART 198. Study Abroad - Art History. (3 h)**

Courses in the history of art associated with Wake Forest study abroad programs. Elective credit only.

**ART 199. International Studies in Art. (1-4 h)**

Offered by art department faculty in locations outside of the United States, on specific topics in art history or studio art. (D only if taken for 3h or 4h). May be repeated when content differs.

**ART 203. Islamic Art and Architecture. (3 h)**

Subjects of study will be drawn from Spain, North Africa, the eastern Mediterranean, Iran, Central Asia, and India, and will focus on selected periods from 650 to the present. (CD, D)

**ART 204. South Asian Art and Architecture. (3 h)**

Topics range from the material culture of the Indus Valley civilization to the art of contemporary South Asia. (CD, D)

**ART 205. The Architecture of Devotion in South Asia. (3 h)**

Explores architecture associated with the major religions of South Asia, including Buddhism, Hinduism, Islam, Sikhism, and Christianity. Building types include stupas, temples, mosques, shrines, and churches. (CD, D)

**ART 206. Art and Empire: India and Europe, 1500-1900. (3 h)**

Examines artistic exchanges between India and various European powers from c. 1500-1900, beginning with the arrival of the Portuguese in Goa and ending with the British imperial era. Readings include primary sources by European and Indian travelers. (CD, D)

**ART 207. Building Empire: Early Modern Islamic Architecture. (3 h)**

Examines Ottoman, Mughal, and Safavid architecture. Topics include imperial palaces, mosques, and mausoleums; the capital cities of Istanbul, Isfahan, and Delhi; royal court culture; and cultural exchanges with European powers. (CD, D)

**ART 208. Ottoman Art and Architecture. (3 h)**

Examines the visual culture of the Ottoman empire in Turkey, the Balkans, the Eastern Mediterranean, and North Africa. Explores imperial architecture; the history of Istanbul; arts of the royal court; cultural exchanges with other world powers; and Ottoman-inspired visual culture in the modern and contemporary periods. (CD, D)

**ART 209. Special Topics in Art. (1-3 h)**

Variable topics in art. Course can be repeated if topic differs.

**ART 210. Topics in Studio Art. (1-4 h)**

Used to designate studio art courses taken at other institutions. May be repeated.

**ART 211. Intermediate Drawing. (4 h)**

Practice and refinement of drawing skills. Emphasis on concept development. P-ART 118 or POI.

**ART 212. Painting II. (4 h)**

Continuation of ART 112 with concentrated emphasis on conceptual development and technical exploration. P-ART 112 or POI.

**ART 213. Painting III. (4 h)**

An individualized course of study with emphasis on refining the skills and concepts developed in Painting II. P-ART 212 or POI.

**ART 214. Film and Video Art: Site Specific. (4 h)**

Continues the historical, aesthetic, and technical exploration of contemporary film and video art production. Students will produce multi-channel video projects that interact with a physical space. P-ART 114 or POI.

**ART 215. Public Art. (4 h)**

Covers art that is sited in the public realm. Exercises with various sites, materials, and audiences, will culminate in a public project. P-ART 115 or POI.

**ART 216. Sculpture Fabrication. (4 h)**

Fabrication of small-scale sculpture using wood, fabric, and metal. Projects stress craftsmanship and imagination. P-ART 115 or POI.

**ART 217. Intermediate Printmaking. (4 h)**

Explorations of multiple-surface and mixed media printmaking methods involving relief, intaglio, and lithography. Color printing methods are explored in the atelier tradition. Strong emphasis on idea development and image generation. P - ART 117 or POI.

**ART 218. Life Drawing. (4 h)**

Introduction to drawing the human figure. May be repeated once. P-ART 118 or POI.

**ART 219. Darkroom Photography. (4 h)**

Further exploration of traditional black and white photography, with an emphasis on alternative processes, camera techniques, aesthetic and critical issues to increase the understanding of the contemporary photographic image. P-ART 119 or 120 or POI.

**ART 221. Advanced Drawing. (4 h)**

Development of a project or series of art works with attention to methodology and material selection. P-ART 211 or POI.

**ART 222. Advanced Painting. (4 h)**

A course of individual study with faculty guidance focused on developing a body of work for exhibition. Will cover various aspects of professional practice including artist statements and proposals, and portfolio development. P-ART 212 or POI.

**ART 224. Film and Video Art: Cyberspace. (4 h)**

Continues the historical, aesthetic, and technical exploration of contemporary film and video art production. Students will produce multi-channel video projects that interact with cyberspace. P-ART 114 or POI.

**ART 225. Bodies and Objects. (4 h)**

This course will explore the social and psychological ramifications of making objects based on the body through casting and other techniques. P-ART 115 or POI.

**ART 226. Installation Art. (4 h)**

Exercises to develop an understanding of material, process, and audience as they relate to contemporary art. The major projects for the course are an installation and a design project. P-ART 115 or POI.

**ART 227. Advanced Printmaking. (4 h)**

Advanced development of printmaking techniques with deeper focus on the unique quality of specific processes. Selected technical concentrations are invited. P - ART 217 or POI.

**ART 228. Film and Video Art: Theatre Works. (4 h)**

Continues the historical, aesthetic, and technical exploration of contemporary film and video art production. Students will produce single-channel film and video projects for theatre viewing. P-ART 114 or POI.

**ART 229. Digital Photography. (4 h)**

Further exploration in designing, printing, and critiquing digital photographs, includes lighting and digital camera techniques. P-ART 119 or 120 or POI.

**ART 230. Spanish Art and Architecture. (3 h)**

Study of the development and uniqueness of Spanish art and architecture within the framework of Mediterranean and Western art in general. Special focus on works viewed during group tours around Spain. Counts as an elective for the Spanish major. Offered in Salamanca.

**ART 231. American Visual Arts. (3 h)**

American art and culture from the Colonial period to 1900 in terms of changing aesthetic standards, social, and historical developments. Includes fine arts, folk arts, material culture, and mass media. (D)

**ART 233. American Architecture. (3 h)**

Discussion-based course examining American architecture from 1650 to the present. (D)

**ART 234. British Art: Nation, Empire, and Identity. (3 h)**

Examines the central role of art and design in forming national identity in Britain, from Henry VIII to present. Topics include the monarchy and art patronage; the country house; exploration and empire building; political and industrial revolutions; debates about modernity. (D)

**ART 235. Arts of London. (3 h)**

A course focused on the collections, exhibits, and architecture of London. The focus of the course will vary depending upon the specialty of the instructor and specific exhibits on view. Offered in London. (D)

**ART 237. Street Photography. (4 h)**

Using digital cameras, the computer and ink jet printers, students examine the creative, social, and critical aspects of contemporary, fine art, photographic image making. Emphasis will be placed on the genre of Street Photography. P-ART 119 or 120 or POI.

**ART 239. Photography and the Handmade Book. (4 h)**

Explores the editing and sequencing of photographic images to direct the audience through the intimate experience of viewing the handmade book in conjunction with the research and discussion of historical and contemporary bookmaking techniques. P-ART 119 or 120 or POI.

**ART 240. Ancient American Art and Architecture. (3 h)**

Topics dealing with the material remains of the civilizations of North, Central, and South America prior to European contact. (CD, D)

**ART 241. Ancient Art and Architecture. (3 h)**

Surveys the major monuments of the ancient world, from prehistory through Late Antiquity, including Mesopotamian, Egyptian, Greek, and Roman works of art and architecture. (D)

**ART 242. Masters and Masterpieces of Spanish Art. (3 h)**

The history of Spanish art and architecture from the 16th century to the present. Special attention to masterpieces made for the Church and court. Counts as an elective for the Spanish major. Offered in Salamanca. (D)

**ART 244. Greek Art and Architecture. (3 h)**

Explores the art and architecture of ancient Greece, from the prehistoric Aegean through the Hellenistic period. (D)

**ART 245. Art and Architecture of the Roman World. (3 h)**

Examines the art and architecture of the ancient Roman world, including Europe, North Africa, and the Near East, from pre-Roman Italy through the period of Late Antiquity and the rise of Christianity. (D)

**ART 246. Byzantine Art and Architecture. (3 h)**

Explores the art and architecture of the Mediterranean world from the foundation of Constantinople as the New Rome in the 4th century until the fall of the Byzantine Empire to the Ottoman Turks in 1453. (D)

**ART 249. The Arts of Medieval Spain. (3 h)**

Examines the visual culture of medieval Spain from the "barbarian" invasions of Late Antiquity through the Islamic period and the Christian Reconquista. Addresses works from architecture to the minor arts, with particular attention to the interactions among their Christian, Muslim, and Jewish makers. (CD, D)

**ART 250. Medieval Art and Architecture. (3 h)**

Surveys the major monuments of the medieval world, from the 4th to 15th centuries, including Byzantine, Islamic, and European works of art and architecture. (D)

**ART 252. Romanesque Art and Architecture. (3 h)**

Explores art and architecture from the Carolingian Renaissance through the 12th century. (D)

**ART 253. The Gothic Cathedral. (3 h)**

The character and evolution of Gothic cathedrals and the sculpture, stained glass, metalworks, and paintings designed for them. (D)

**ART 254. Luxury Arts in the Middle Ages. (3 h)**

Medieval illuminated manuscripts and precious objects made of gold, silver, ivory, enamel, and other luxury materials are the subjects of this course. (D)

**ART 258. The Printed Image in Early Modern Europe. (3 h)**

Technical and artistic development of prints, and the information revolution they brought about. Prints by Durer, Rembrandt, and others. Students will curate an exhibit from the WFU Print Collection. (D)

**ART 259. The History of Photography. (3 h)**

A historical survey of photography from its moment of invention in the 1830s to the present. Students will consider technological shifts—including digital and social media—and the ways photography crosses cultural borders, whether scientific, legal, documentary, or artistic. (D)

**ART 260. Classics of World Cinema. (3 h)**

Selected masterpieces of world film 1930-1970. Emphasizes developing skills for viewing, discussing, and writing about motion pictures as visual and dramatic art. Students must register for both 260 and 260L. (D)

**ART 260L. Classics of World Cinema Lab. (0 h)**

Group film screening.

**ART 261. Topics in Film History. (3 h)**

Variable topics in film history, including genres, major directors, regional or national cinemas, and historical periods. Course may be repeated if topic is different. (D)

**ART 265. Art and Life in Renaissance Europe. (3 h)**

Cross-cultural developments in the visual arts in Italy, Flanders, and other European centers in the 15th and 16th century. Topics include the status of artists; the use of art in the home, the church, and political arena; the economics of art; and art used to disseminate discoveries about science and world explorations. (D)

**ART 266. Art in the Age of Giotto, Dante, and the Plague. (3 h)**

Developments in Italian painting, sculpture, and architecture in the 14th century with special attention to the new naturalism of Giotto and the effects of the Great Plague of 1348 on the arts. (D)

**ART 267. Early Italian Renaissance Art. (3 h)**

The development of art and architecture in Italy in the 15th century. Special attention is given to the works of Donatello, Botticelli, and Leonardo da Vinci. (D)

**ART 268. 16th Century Art in Italy: Magnificence and Reform. (3 h)**

The development of art and architecture in Rome, Florence, Venice and other cities. Artists studied include Michelangelo, Raphael, and Titian. (D)

**ART 269. Venetian Renaissance Art. (3 h)**

A survey of the art of the Venetian Renaissance, with slide lectures and museum visits. Offered in Venice. (D)

**ART 270. Northern Renaissance Art. (3 h)**

A survey of painting, sculpture, and printmaking in Northern Europe from the mid-14th century through the 16th century. (D)

**ART 272. 17th-Century European Art: Politics, Power and Patronage. (3 h)**

Examines art and architecture in Baroque Europe in its religious and social context. Artists studied include Caravaggio, Rubens, and Rembrandt. (D)

**ART 273. 18th-Century European Art: the Birth of the Modern World. (3 h)**

Examines cultural production in Europe, c.1680-1800 with particular attention to fine art, and situates the art of the period within a cultural and historical framework. (D)

**ART 274. 17th-Century Dutch Painting. (3 h)**

Survey of art, artists and cultural issues of the Dutch Golden Age. Artists include Rembrandt, Hals, Steen and Vermeer. (D)

**ART 276. Austrian Art and Architecture. (3 h)**

Study of the development of Austrian art and architecture and its relationship to European periods and styles. Includes visits to sites and museums. Offered in Vienna.

**ART 281. 19th-Century European Art: From Enlightenment to Abstraction. (3 h)**

Considers artistic production of Europe from the French Revolution to the discussion of abstraction in the early 20th century. Examines the notion of modernity as a cultural ideal and the development of avant-gardes in the interplay between art, society, politics and economics. (D)

**ART 282. Modern Art in Europe and the Americas. (3 h)**

A survey of European, American, and Latin American art from the years 1890 to 1945 that focuses on how art intertwines with the expansion of capitalism, two world wars, and colonialism. (D)

**ART 284. Post War/Cold War: Global Art 1945-1990. (3 h)**

A global history of art during the Cold War and its immediate aftermath, 1945-1990. Discussion will focus on the ways that art both underpinned and resisted the Cold War's rigid political positions. (CD, D)

**ART 285. Global Contemporary Art. (3 h)**

A global perspective on contemporary artistic trends since 1990, including discussions about art criticism, exhibitions and the changing art world. (CD,D)

**ART 286. Topics in Art and Architectural History. (3 h)**

Variable topics in art and architectural history, such as historical periods, geographic regions, or specific media. Course can be repeated if topic differs.(D)

**ART 287H. Honors in Art History. (3 h)****ART 287S. Honors in Studio Art. (4 h)****ART 288. Modern Architecture. (3 h)**

A survey of European and American architecture from 1900 to the present. (D)

**ART 290. Printmaking Workshop. (4 h)**

A workshop course exploring relief, intaglio, lithography, and monotype techniques. Open to students at any skill level. Offered in the summer.

**ART 291H. Individual Study. (1.5, 3 h)**

Independent Study in Art History with faculty guidance. P - POI.

**ART 291S. Individual Study. (1-4 h)**

Independent Study in Studio Art with faculty guidance. P - POI.

**ART 293. Practicum. (3, 4 h)**

Internships in local cultural organizations, to be arranged and approved in advance by the art department. Pass/Fail. P-POI.

**ART 295. Studio Seminar. (1-4 h)**

Offered by members of the faculty or visiting faculty on topics of their choice and related studio activities. P-POI.

**ART 297. Management in the Visual Arts. (3 h)**

Provides art students with the skills, experiences, and frameworks for understanding the role that the visual arts play within the national and international economy. Also listed as ENT 312. P-Junior or senior standing and POI.

**ART 298. Contemporary Art and Criticism. (3 h)**

This discussion-based class examines key works of recent art in a sustained and critical manner. The course is associated with the Student Union Buying trip.

**ART 331. American Foundations. (3 h)**

An interdisciplinary study of American art offered through the Honors program. Also listed as HON 393, 394.

**ART 351. Topics in Gender and Art. (3 h)**

Seminar that addresses a range of topics which intersect gender and artistic practice in various cultures and historical periods. Attention will be paid to the role of art in formulating, subverting, or resiting gender norms.

**ART 386. Advanced Topics in Art and Architectural History. (3 h)**

Variable topics in art and architectural history focusing on specialized themes, periods, regions, or media. Course may be repeated if topic differs.

**ART 394. Issues in Art History. (4 h)**

A discussion-based course focusing on critical theory and methods employed by art historians working today as well as by some of the founding figures of the discipline. Intended for art history majors. P-Non-majors, POI.

**ART 396. Art History Seminar. (4 h)**

Focused readings, discussion, and research on a topic selected by members of the faculty. May be repeated. P-One course in art history or POI.

**ART 397. Advanced Topics In Studio Art. (1-4 h)**

Focus on selected studio projects, critical readings, and discussions on topics selected by members of department faculty. P-POI.

## Biochemistry & Molecular Biology (BMB)

**BMB 301. Special Topics in Biochemistry and Molecular Biology. (3 h)**

Courses in selected special topics in biochemistry and molecular biology. May be repeated for credit if course content differs. P - POI.

**BMB 370. Biochemistry I: Macromolecules and Metabolism. (3 h)**

Introduces principles of biochemistry including structure, function, and biosynthesis of biological molecules, analysis of enzyme function and activity, bioenergetics, and regulation of metabolic pathways. Also listed as BMB 370 and CHM 370. P-any two of the following with associated labs: CHM 122 (or CHM 123), CHM 280 or BIO 214; or any two of the following: CHM 122 (or CHM 123), CHM 280, or BIO 265.

**BMB 371L. Advanced Biochemistry Lab. (1.5 h)**

Emphasizes approaches for isolation and analysis of enzymes. Required for BMB major and the chemistry major with concentration in biochemistry. Recommended for research focused students. Also listed as BIO 371L and CHM 371L. Credit allowed for BIO 370L/CHM 370L, or BMB 371L/BIO 371L/CHM 371L, but not both. P or C-BMB 370/BIO 370/CHM 370.

**BMB 372. Advanced Molecular Biology. (3 h)**

Presents molecular mechanisms by which stored genetic information is expressed including the mechanisms for and regulation of gene expression, protein synthesis, and genome editing. Emphasizes analysis and interpretation of experimental data from the primary literature. Also listed as BIO 372. P-BIO 213 and 214 and BIO 370/BMB 370/CHM 370 or BIO 265 and BIO 370/BMB 370/CHM 370.

**BMB 372L. Advanced Molecular Biology Laboratory. (1.5 h)**

Introduces modern methods of molecular biology to analyze and manipulate expression of genes and function of gene products. Also listed as BIO 372L. P or C-BIO 372/CHM 372 or BMB 373/CHM 373.

**BMB 373. Biochemistry II. (3 h)**

Examines the structure, function, and synthesis of proteins and nucleic acids and includes advanced topics in biochemistry including catalytic mechanisms of enzymes and ribozymes, use of sequence and structure databases, and molecular basis of disease and drug action. Also listed as CHM 373. P-CHM 223 and BIO 370/BMB 370/CHM 370.

**BMB 376. Biophysical Chemistry. (3 h)**

Fundamentals of physical chemistry applied to biological molecules, including thermodynamics, kinetics, quantum mechanics, and spectroscopy. Emphasizes modern experimental approaches used to analyze biological systems. Also listed as CHM 376. P-CHM 280, BIO/BMB/CHM 370, PHY 114. P or C-MST 112.

**BMB 381. Epigenetics. (3 h)**

Studies the molecular mechanisms for inheritance of genome modifications. Uses primary literature to explore the environmental and developmental signals that influence epigenetic controls of gene expression and disease. Also listed as BIO 381. P-BIO 213 and 214 or BIO 265.

**BMB 381L. Epigenetics Laboratory. (1 h)**

Lab provides hands-on experiences with genome editing and molecular genetics to address the function and expression of genes. Also listed as BIO 381L. P or C-BMB 381 or POI.

**BMB 382. Molecular Signaling. (3 h)**

Examines the molecular and biochemical mechanisms by which hormones, neurotransmitters, and other signaling molecules act to change growth, development, and physiological and behavioral responses of organisms with a focus on discussion of primary literature. Also listed as BIO 382. P-BIO 213, 214, and BIO 370/BMB 370/CHM 370 or BIO 265 and BIO 370/BMB 370/CHM 370.

**BMB 383. Genomics. (3 h)**

Examines the architecture, expression, and evolution of genomes. Uses current primary literature to examine the functional and evolutionary dynamics of genomes and the modern analytic techniques used to investigate genome-wide phenomena. Also listed as BIO 383. P-BIO 160 and 160L or CSC 112 or STA 212; and an introductory statistics course such as STA 111, ANT 380, BIO 380, or PSY 311.

**BMB 383L. Genomics Lab. (1 h)**

Introduces analytic methods and interpretation of genome-wide data through practical tutorials. Also listed as BIO 383L. P or C-BMB 383.

**BMB 388. Senior Seminar in Biochemistry and Molecular Biology. (1 h)**

Discussion of contemporary research and introduction to the biochemical and molecular biology literature and research skills and approaches. P or C-BMB 370/BIO 370/CHM 370.

**BMB 390. Biochemistry and Molecular Biology Research Experience. (0-2 h)**

Research experience and written report for off campus or summer research by prearrangement. Pass/Fail option. May be repeated for credit. Summer research for 0 h is pass/fail only.

**BMB 391. Independent Research. (0.5-2 h)**

Working under the guidance of a faculty member or research staff member, students will conduct an independent research project that involves the collection and analysis of data, and that culminates in a written paper or poster to be submitted to the sponsoring faculty or staff member. P-POI.

**BMB 392. Independent Research. (0.5-2 h)**

Working under the guidance of a faculty member or research staff member, students will conduct an independent research project that involves the collection and analysis of data, and that culminates in a written paper or poster to be submitted to the sponsoring faculty or staff member. P-POI.

**BMB 393. Independent Research. (0.5-2 h)**

Working under the guidance of a faculty member or research staff member, students will conduct an independent research project that involves the collection and analysis of data, and that culminates in a written paper or poster to be submitted to the sponsoring faculty or staff member. P-POI.

**BMB 394. Independent Research. (0.5-2 h)**

Working under the guidance of a faculty member or research staff member, students will conduct an independent research project that involves the collection and analysis of data, and that culminates in a written paper or poster to be submitted to the sponsoring faculty or staff member. P-POI.

**BMB 395. Senior Research Project. (2 h)**

Writing of senior research project or honors thesis. P or C-two of the following: BMB 390/BMB 391/BIO 391/CHM 391, BMB 392/BIO 392/CHM 392.

## Biology (BIO)

**BIO 101. Biology and the Human Condition. (4 h)**

Introduction to basic principles in biology, emphasizing recent advances in biology in the context of their ethical, social, political, and economic considerations. Intended for students with little or no previous experience in biology. BIO 101 is not recommended for those pursuing a career in the health professions or who are planning to continue in biology. Does NOT count toward the biology major or minor. Credit not given for both BIO 101 and BIO 111. C-BIO 101L. (D)

**BIO 101L. Biology and the Human Condition-Lab. (0 h)**

Lab only. No credit.

**BIO 105. Plants and People. (4 h)**

Explores the numerous associations between plants and people, the fundamental importance of plant diversity to humans and their role in the sustainability of the biosphere. This course is intended for students with little or no previous experience in biology and does NOT count toward the major or minor in Biology. (D)

**BIO 111. Biological Principles. (4 h)**

Study of the general principles of living things with focus on the cellular, organismal, and population levels of biological organization, emphasizing the role of heredity and evolution in these systems. Used as equivalent credit for prior college level or transfer course work only. Does NOT count toward the major or minor in biology. Credit not given for both BIO 101 and BIO 111. (D)

**BIO 111L. Biological Principles Lab. (0 h)**

Lab only. No credit.

**BIO 150. Biology I. (3 h)**

Introduction to biological principles and concepts I. Both BIO 150 and 150L must be taken to meet the divisional requirement. (D)

**BIO 150L. Biology I Lab. (1 h)**

P or C-BIO 150.

**BIO 160. Biology II. (3 h)**

Introduction to biological principles and concepts II. P-BIO 150 and 150L.

**BIO 160L. Biology II Lab. (1 h)**

P-BIO 150 and 150L. P or C-BIO 160.

**BIO 202. Bird Taxonomy (Florida). (2 h)**

Immersion in bird taxonomy and ecology, conducted in southern Florida during six days of Spring Break. Two on-campus meetings are followed by a trip to top birding sites in North America, viewing over 100 species and covering most of the world's orders of birds. Out-of-pocket costs for food, transportation, and lodging expected to be \$200 or less. P-POI required.

**BIO 208. Understanding Climate Change. (1.5 h)**

Introduction to the scientific evidence for climate change.

**BIO 210. Ethical Decision-Making in Biology and Medicine. (3 h)**

Examines contemporary issues in bioethics, including responsible conduct in research, implications of technological advances in biology, environmental issues, and controversies in health care and medical practice.

**BIO 212. Biodiversity. (4 h)**

Investigates the history of life on earth and examines its diversification in an evolutionary and ecological context. Lectures cover the mechanisms of biological diversification and survey life on earth. Labs introduce students to the broad diversity of life through exercises with living organisms. P-BIO 150, 150L, 160, and BIO 160L. (D)

**BIO 213. Genetics and Molecular Biology. (4 h)**

Introduction to the principles and processes of heredity, information flow, and gene function. Topics covered include Mendelian genetics, molecular genetics, and the origin of genetic variation. This course will be offered for the last time Spring 2021. C-BIO 213L.

**BIO 213L. Genetics and Molecular Biology Lab. (0 h)**

Lab only. No credit.

**BIO 214. Cellular Biology. (4 h)**

Introduction to the principles and processes of cellular biology and their impact on organismal function. Topics include molecular organization of cellular structures, regulations of cellular functions, bioenergetics, and metabolism. Introduces cancer, immunology, and developmental biology. This course will be offered for the last time in Spring 2021. P-BIO 114 and CHM 111.

**BIO 214L. Cellular Biology Lab. (0 h)**

Lab only. No credit.

**BIO 220. Introduction to Earth Science. (3 h)**

Oceans, weather, climate, earthquakes, volcanoes, soil, and space all play important roles in our dynamic planet. Students will explore the lithosphere, hydrosphere, atmosphere, and biosphere, and gain a deeper understanding of how the Earth operates as a whole. Also listed as ENV 220. P-requires BIO 150, 150L, 160, and BIO 160L if taken as BIO 220.

**BIO 225. Field Biology and Natural History. (3 h)**

Provides a hands-on study of organisms in their natural habitats with an emphasis on local North Carolina biodiversity. Well-established sampling methods in field biology are blended with emerging technologies. P-BIO 150, 150L, 160, and BIO 160L.

**BIO 235. Genetics and Evolution. (3 h)**

Exploration of genetic evolution, biodiversity, adaptation, and genomics. Intended as an intermediate course for developing skills towards advanced studies in genetics, evolution, ecology, and molecular biology. P-BIO 150, 150L, 160, and BIO 160L.

**BIO 245. Comparative Animal Physiology. (3 h)**

Introduction to animal physiology in the context of animal diversity and evolution. P-BIO 150, 150L, 160, and BIO 160L.

**BIO 265. Cellular and Molecular Biology. (3 h)**

Exploration of the molecular mechanisms of cellular functions. P-BIO 150, 150L, 160, and BIO 160L.

**BIO 301. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 302. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 303. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 304. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 305. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 306. Topics in Biology. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**BIO 307. Biophysics. (3 h)**

Introduction to the structure, dynamic behavior, and function of DNA and proteins, and a survey of membrane biophysics. The physical principles of structure determination by X-ray, NMR, and optical methods are emphasized. Also listed as PHY 307. P-BIO 114 or 214, PHY 113 or 123, PHY 114 or 124, or POI. BIO 150, 150L, 160, and BIO 160L may be substituted for BIO 114 and 214.

**BIO 308. Biomechanics. (3 h)**

Analyzes the relationship between organismal form and function using principles from physics and engineering. Solid and fluid mechanics are employed to study design in living systems. P-BIO 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 308L. Biomechanics Lab. (1 h)**

Laboratory study of biomechanics. P or C-BIO 308.

**BIO 309. Comparative Anatomy. (4 h)**

Study of the vertebrate body from an evolutionary, functional, and developmental perspective. Labs emphasize structure and function, primarily through the dissection of representative vertebrates. P-BIO 113 and 114 or BIO 245.

**BIO 310. Community Ecology and Global Change. (4 h)**

An advanced ecology course covering mechanisms that determine the dynamics and distribution of plant and animal assemblages and their responses to and roles in global change. Lectures focus on ecological principles and theory. Lab includes local field trips and discussion of the primary literature. Weekend field trips to Outer Banks and mountains. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 311. Ecology and Conservation Biology of Coral Reefs. (4 h)**

In-depth study of the various biotic and abiotic components that come together to structure ecosystem function and biodiversity at all spatial scales in one of Earth's most productive and diverse environments, yet one most threatened by human use and climate change. Lab component is a one-week field trip over Spring Break. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 313. Herpetology. (4 h)**

Explores the biology of reptiles and amphibians, emphasizing their unique morphological, physiological, behavioral and life-history adaptations, and their evolutionary relationships. The lab consists mostly of field trips. P-BIO 113, 114 and 213 or BIO 150, 150L, 160, and BIO 160L.

**BIO 315. Population Genetics. (3 h)**

Study of the amount and distribution of genetic variation in populations of organisms and of how processes such as mutation, recombination, and selection affect genetic variation. Lectures introduce theoretical studies and include discussion of molecular and phenotypic variation in natural populations. P-BIO 113 and 213 or BIO 150, 150L, 160, and BIO 160L. (QR)

**BIO 315L. Population Genetics Lab. (1 h)**

Uses computer modeling and simulation, and experiments using populations of fruit flies and other model organisms as appropriate. P or C-BIO 315.

**BIO 316. Biology of Birds. (4 h)**

Lecture plus lab course emphasizing ecological and evolutionary influences on the physiology, behavior, diversity, and population biology of birds, and case studies in conservation biology. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 317. Plant Physiology and Development. (3 h)**

Examines the growth, development, and physiological processes of plants. Control of these processes is examined on genetic, biochemical, and whole plant levels. P-BIO 114, 213 and 214 or BIO 265.

**BIO 317L. Plant Physiology and Development Lab. (1 h)**

Consists of structured experiments and an independently designed research project. P or C-BIO 317.

**BIO 323. Animal Behavior. (3 h)**

A survey of laboratory and field research on animal behavior. P-BIO 113 and 114 or BIO 150, 150L, 160, or BIO 160L.

**BIO 323L. Animal Behavior Lab. (1 h)**

Laboratory study of animal behavior. P or C-BIO 323.

**BIO 324. Hormones and Behavior. (3 h)**

Explores the mechanisms of hormonal influences on behavior in a broad range of animals, including humans. P-BIO 114 or BIO 245.

**BIO 327. Mycology: Biology of Fungi. (4 h)**

Introduces fungi, their evolution and natural taxonomy; cell and molecular biology; genetics, mating, and development; primary and secondary biochemistry; and their interactions with other organisms and the environment. Lab introduces culturing, microscopic and molecular techniques. P-BIO 113, 114, 213 and 214 or BIO 150, 150L, 160, and BIO 160L.

**BIO 328. Biology of Aging. (3 h)**

Explores mechanisms of aging, and effects of aging on cellular and physiological processes in a range of organisms. P-BIO 113, 114 and 214; or BIO 235 or BIO 245 or BIO 265.

**BIO 329. Conservation Biology. (3 h)**

Lectures, readings, and discussions examining biological resources, their limitations and methods for sustainability. Genetic, aquatic, terrestrial, and ecosystem resources will be examined. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 330. Land and Natural Resource Management. (3 h)**

Provides a fundamental understanding of land and resource management. The major focus is on federal oversight and policies but state, local, non-profit, and international aspects are included. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 332. Microbiology. (4 h)**

Structure, function, and taxonomy of microorganisms with emphasis on bacteria. Topics include microbial ecology, industrial microbiology, and medical microbiology. Lab emphasizes microbial diversity through characterizations of isolates from nature. P-CHM 122 and BIO 213 and 214 or CHM 122 and BIO 150, 150L, 160, and BIO 160L.

**BIO 333. Vertebrates. (4 h)**

Systematic study of vertebrates, with emphasis on evolution, physiology, behavior, and ecology. Laboratory devoted to systematic, field, and experimental studies. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 334. Parasitology. (4 h)**

Survey of protozoan, helminth, and arthropod parasites with a focus on cellular biology, life cycles, host-parasite relationships, and public health implications. Laboratory emphasizes microscopy-based techniques for examining parasite morphology and intracellular structures. P- BIO 113 and 114 or BIO 265.

**BIO 335. Insect Biology. (4 h)**

Introduction to the diversity, structure, development, physiology, behavior, and ecology of insects. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 336. Development. (3 h)**

Study of the molecular, cellular, and anatomical aspects of embryonic development of invertebrate and vertebrate animals. P-BIO 114, 213 and 214, or BIO 150, 150L, 160, or BIO 160L.

**BIO 336L. Development Lab. (1 h)**

Laboratory study of the molecular, cellular, and anatomical aspects of embryonic development of invertebrate and vertebrate animals. P or C-BIO 336.

**BIO 338. Plant Diversity. (3 h)**

Explores the diversification of plants in the context of convergent evolution, functional processes and ecological importance. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 338L. Plant Diversity. (1 h)**

Plant diversity lab. P or C-BIO 338.

**BIO 340. Ecology. (4 h)**

Introduction to the interrelationships among living systems and their environments; structure and dynamics of major ecosystem types; contemporary problems in ecology. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L. (QR)

**BIO 341. Marine Biology. (3 h)**

An introduction to the physical, chemical, and biological parameters affecting the distribution of marine organisms. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 341L. Marine Biology. (1 h)**

Marine biology lab. P or C-BIO 341.

**BIO 342. Oceanography. (4 h)**

Introduces the geological, physical, chemical, and biological processes that govern the global oceans and their role in climate change. Lab focus is on tools and research questions pertinent to the field of biological oceanography. P-CHM 111 and BIO 113 or CHM 111 and BIO 150, 150L, 160, and BIO 160L.

**BIO 346. Neurobiology. (3 h)**

Introduces the structure and function of the nervous system including the neural basis of behavior. P-BIO 114 and 214 or BIO 150, 150L, 160, and BIO 160L.

**BIO 346L. Neurobiology Lab. (1 h)**

Laboratory emphasizing electrophysiological techniques with experiments from the cellular to the behavioral level. Students will design and complete their own projects. P or C-BIO 346.

**BIO 348. Physiological Plant Ecology. (3 h)**

Provides a fundamental understanding of how plants have adapted to the stresses of their habitats, particularly in harsh or extreme environments such as deserts, the alpine, the arctic tundra, and tropical rain forests. P-BIO 113 and 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 348L. Physiological Plant Ecology. (1 h)**

Physiological plant ecology lab. P or C-BIO 348.



**BIO 349. Tropical Biodiversity of the Amazon and Andes. (4 h)**

Intensive field course in tropical biodiversity focusing on ecosystems, natural resource management, and conservation. Students will travel to major tropical biomes in the vast tropical wildernesses of Andean and Amazonian Peru. Lectures emphasize the basic ecological principles important in each ecosystem. Field-based labs focus on student-designed projects. Offered in the summer only. POI required.

**BIO 352. Developmental Neuroscience. (4 h)**

Focuses on the development of neural structures and the plasticity of the mature nervous system. Laboratory features immunocytochemical and cell culture techniques for the study of neurons. P-BIO 213 and 214 or BIO 265.

**BIO 353. Functional Neuroanatomy. (3 h)**

Introduces the anatomical organization of the vertebrate central nervous system. P-BIO 214 or BIO 245.

**BIO 354. Methods in Neuroscience. (3 h)**

Introduces the techniques used in the field of neuroscience. Anatomical, physiological, molecular and behavioral methods are covered through lectures, laboratory work, and reading the primary literature. Also offered in Salamanca. P-BIO 114 and 214 or BIO 150, 150L, 160, and BIO 160L.

**BIO 356. Ecology and Resource Management of Southeast Australia. (4 h)**

Intensive field-oriented course focusing on ecosystems, natural resource management and environmental conservation of southeastern Australia. Students travel to major biomes including sub-tropical rainforests, coral reefs and the Australian urban environment. Laboratories are field-based, with some consisting of student-designed projects. Taught only in summers in Australia. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L or POI.

**BIO 357. Bioinspiration and Biomimetics. (3 h)**

Explores the ways in which biological mechanisms can inspire new technologies, products, and businesses. The course combines basic biological and entrepreneurial principles. Also listed as ENT 357. P-BIO 114 or BIO 150, 150L, 160, and BIO 160L.

**BIO 358. Biogeography. (3 h)**

Study of geographic variation and distribution of organismal diversity using theoretical, historical and ecological information with specific applications to conservation and sustainability. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 358L. Biogeography Lab. (1 h)**

Introduces methods of analysis related to the study of biogeography. P or C-BIO 358.

**BIO 360. Metabolic Diseases. (3 h)**

Explores genetic and biochemical pathways in the context of inborn errors of metabolism. P-BIO 370/CHM 370/BMB 370.

**BIO 361. Principles of Biological Microscopy. (4 h)**

Introduces the fundamentals of biological imaging techniques. Students will explore a variety of microscopic methods as well as image acquisition, post-image processing, and scientific figure creation. Emphasis will be on both a theoretical and practical understanding of microscopic imaging principles. Concepts of experimental design and data critique will be explored through student projects and presentations. P-BIO 214 or BIO 265.

**BIO 362. Immunology. (3 h)**

Study of the components and protective mechanisms of the human immune system, including innate and acquired immunity. P-BIO 214 or BIO 265.

**BIO 363. Sensory Biology. (3 h)**

Introduction to sensory physiology and other aspects of sensory systems, e.g. molecular biology and anatomy. Also offered in Salamanca. P-BIO 114 and 214 or BIO 150, 150L, 160, and BIO 160L.

**BIO 363L. Sensory Biology Lab. (1 h)**

Laboratory emphasizing electrophysiological and behavioral techniques to examine sensory systems. Students will design and complete their own projects. P or C-BIO 363.

**BIO 365. Biology of the Cell. (3 h)**

Lecture course on classic and recent experiments in cell biology. Analysis and interpretation of experimental data from the primary literature is emphasized. P-BIO 213 and 214 or any BIO course at the 211 level or above.

**BIO 365L. Biology of the Cell Lab. (1 h)**

Laboratory course introducing basic techniques in cell biology, leading to an independent project. P or C-BIO 365.

**BIO 367. Virology. (3 h)**

Introduces molecular virology, including viral replication, viral-cell interactions, viral disease, and methods for studying and controlling viruses. P-BIO 213 and 214 or BIO 265.

**BIO 368. The Cell Biological Basis of Disease. (3 h)**

Examines defects in basic cellular mechanisms that may lead to disease. P-BIO 214 or BIO 265.

**BIO 368L. The Cell Biological Basis of Disease Lab. (1 h)**

Lab uses advanced microscopic and histological techniques to investigate basic properties of cells. P or C-BIO 368.

**BIO 369. Cancer Biology. (3 h)**

Analysis of molecular and cellular mechanisms that transform normal cells, trigger abnormal proliferation, and lead to tumor formation. Emphasis is on the biological basis of cancer, with some exploration of clinical and social consequences. P-BIO 213 and 214, or BIO 235 or BIO 245, or BIO 265.

**BIO 370. Biochemistry I: Macromolecules and Metabolism. (3 h)**

Introduces principles of biochemistry including structure, function, and biosynthesis of biological molecules, analysis of enzyme function and activity, bioenergetics, and regulation of metabolic pathways. Also listed as BMB 370 and CHM 370. P-any two of the following with associated labs: CHM 122 (or CHM 123), CHM 280 or BIO 214; or any two of the following: CHM 122 (or CHM 123), CHM 280, or BIO 265.

**BIO 370L. Biochemistry Lab. (1 h)**

Overview of biochemical approaches to study structure and function of macromolecules. Also listed as CHM 370L. Credit allowed for BIO 370L/CHM 370L or BIO 371L/BMB 371L/CHM 371L, but not both. P or C-BIO 370/BMB 370/CHM 370.

**BIO 371L. Advanced Biochemistry Lab. (1.5 h)**

Emphasizes approaches for isolation and analysis of enzymes. Required for BMB major and the chemistry major with concentration in biochemistry. Recommended for research focused students. Also listed as BIO 371L and CHM 371L. Credit allowed for BIO 370L/CHM 370L, or BMB 371L/BIO 371L/CHM 371L, but not both. P or C-BMB 370/BIO 370/CHM 370.

**BIO 372. Advanced Molecular Biology. (3 h)**

Presents molecular mechanisms by which stored genetic information is expressed including the mechanisms for and regulation of gene expression, protein synthesis, and genome editing. Emphasizes analysis and interpretation of experimental data from the primary literature. Also listed as BMB 372. P-BIO 370/BMB 370/CHM 370.

**BIO 372L. Advanced Molecular Biology Laboratory. (1.5 h)**

Introduces modern methods of molecular biology to analyze and manipulate expression of genes and function of gene products. Also listed as BMB 372L. P or C-BIO 372/BMB 372 or BMB 373/CHM 373.

**BIO 374. Neuropharmacology. (3 h)**

Introduces how pharmacological agents affect cellular and molecular functions in the nervous system of normal and disease states. Lecture and case studies will be used to examine topics including drugs targeting mood and emotion, memory and dementia, and movement disorders. Drugs of abuse and the neurological basis of addiction will also be evaluated. P-BIO 214 or BIO 150, 150L, 160, and BIO 160L.

**BIO 379. Introduction to Geographic Information Systems (GIS). (4 h)**

Introduces the concepts and use of GIS as a mapping and analytical tool with emphasis on applications environmental modeling, global change, sociodemographic change, and site suitability analyses. P-BIO 113 or BIO 150, 150L, 160, and BIO 160L.

**BIO 380. Biostatistics. (3 h)**

An introduction to statistical methods used by biologists, including descriptive statistics, hypothesis-testing, analysis of variance, and regression and correlation. P-BIO 114 or BIO 150, 150L, 160, and BIO 160L. (QR)

**BIO 381. Epigenetics. (3 h)**

Studies the molecular mechanisms for inheritance of genome modifications. Uses primary literature to explore the environmental and developmental signals that influence epigenetic controls of gene expression and disease. Also listed as BMB 381. P-BIO 213 and 214, or BIO 265.

**BIO 381L. Epigenetics Laboratory. (1 h)**

Provides hands-on experiences with genome editing and molecular genetics to address the function and expression of genes. Also listed as BMB 381L. P or C-BIO 381 or POI.

**BIO 382. Molecular Signaling. (3 h)**

Examines the molecular and biochemical mechanisms by which hormones, neurotransmitters, and other signaling molecules act to change growth, development, and physiological and behavioral responses of organisms with a focus on discussion of primary literature. Also listed as BMB 382. P-BIO 213, 214, and BIO 370/BMB 370/CHM 370 or BIO 265 and BIO 370/BMB 370/CHM 370.

**BIO 383. Genomics. (3 h)**

Examines the architecture, expression, and evolution of genomes. Uses current primary literature to examine the functional and evolutionary dynamics of genomes and the modern analytic techniques used to investigate genome-wide phenomena. Also listed as BMB 383. P-BIO 160 and 160L or CSC 112 or STA 212; and an introductory statistics course such as STA 111, ANT 380, BIO 380, or PSY 311.

**BIO 383L. Genomics Lab. (1 h)**

Introduces analytic methods and interpretation of genome wide data through practical tutorials. Also listed as BMB 383L. P or C-BIO 383.

**BIO 384. Molecular Evolution. (3 h)**

Study of the evolutionary analysis of biological sequences in population genetic and phylogenetic contexts. Explores statistical and bioinformatic techniques for investigating population evolution, molecular adaptations, and reconstruction of evolutionary history through primary literature. P-BIO 160 and 160L or CSC 112 or STA 212; and an introductory statistics course such as STA 111, ANT 380, BIO 380, or PSY 311.

**BIO 384L. Molecular Evolution. (1 h)**

Introduces evolutionary analytic methods and interpretation of molecular data through practical tutorials. P or C-BIO 384.

**BIO 385. Bioinformatics. (3 h)**

Introduction to computational approaches essential to modern biological inquiry. Approaches may include large biological dataset analyses, sequence similarity and motif searches, and analysis of high-throughput genomic technologies. Emphasizes interdisciplinary interaction and communication. Also listed as CSC 385 and PHY 385. P-CSC 201 or 221 (and BIO 150, 150L, 160, and BIO 160L if taken as BIO 385) or POI.

**BIO 387. Computational Systems Biology. (3 h)**

Introduction of concepts and development of skills for comprehension of systems biology problems, including both biological and computational aspects. Topics may include genome-wide transcriptomic analysis, protein interaction networks, large-scale proteomics experiments, and computational approaches for modeling, storing, and analyzing the resulting data sets. Emphasizes interdisciplinary interaction and communication. Also listed as CSC 387. P-CSC 201 or 221 (also requires BIO 150, 150L, 160, and BIO 160L if taken as BIO 387) or POI.

**BIO 388. Methods in Molecular Genetics. (4 h)**

Hybrid lecture/laboratory course gives students a hands-on introduction to a diverse array of techniques commonly used in molecular genetics laboratories. P-BIO 213 and 214, or BIO 150, 150L, 160, and BIO 160L.

**BIO 390. Mentored Research. (2 h)**

Introduces the technology and techniques of research. Working under the supervision of a faculty member or research staff, students will obtain experience in experimental design and analysis. The course may be taken as a precursor to BIO 391. Satisfies the research requirement for the BA and BS degrees. Pass/Fail option. P-BIO 150, 150L, 160, 160L, and POI required.

**BIO 391. Independent Research. (2 h)**

Students participate in a research project involving collection or analysis of data to investigate a defined research question. Students are required to submit a written paper or poster documenting research progress. The same numbered course cannot be repeated. Subsequent courses must be taken in consecutive order. Satisfies the research requirement for the BA and BS degree. Pass/Fail option. P-BIO 150, 150L, 160, 160L and POI required.

**BIO 392. Independent Research. (2 h)**

Continuation of research beyond BIO 391. Students are required to submit a written paper or poster documenting research progress. The same numbered course cannot be repeated. Pass/Fail option. P-BIO 391 and POI required.

**BIO 393. Research in Biology. (2 h)**

Continuation of research beyond BIO 392. Students are required to submit a written paper or poster documenting research progress. The same numbered course cannot be repeated. Pass/Fail option. P-BIO 392 and POI required.

**BIO 394. Research in Biology. (2 h)**

Continuation of research beyond BIO 393. Students are required to submit a written paper or poster documenting research progress. The same numbered course cannot be repeated. Pass/Fail option. P-BIO 393 and POI required.

**BIO 399. Mentored Biology. (2 h)**

Students explore career opportunities in biology-related fields or experiences. Students are required to submit a written paper or poster describing research internship or experience to their adviser. Plans must be approved in advance by the adviser. Course can be repeated for credit, but only 4 total hours will count toward the BA BIO major. Does not count toward the BS BIO major or the BIO minor. Pass/Fail only. P-BIO 150, 150L, 160, 160L and POI required.

## Business & Enterprise Mgmt (BEM)

### **BEM 201. Quantitative Analysis I. (3 h)**

Emphasizes the understanding and application of quantitative tools used in the business decision-making process. Issues covered include collection and presentation of data, sampling, and inferences. P-ACC 111 with a C or better and sophomore standing; or POI. (QR)

### **BEM 202. Quantitative Analysis II. (3 h)**

Emphasizes the understanding and application of quantitative tools for analysis and managerial decision-making. Topics include such statistical tools as Chi-Square methods, analysis of variance and regression, and correlation analysis. Management science tools include statistical decision theory and some deterministic optimization models such as linear programming and its various extensions. Application of these methods to the analysis of decisions from various functional areas of business is an important component of the course. P- BEM 201.

### **BEM 211. Organizational Behavior. (3 h)**

This survey course provides a broad overview of several evidence-based theories and frameworks of organizational behavior (OB) at the individual, group and organizational levels of analysis that can be applied to help identify, diagnose and provide solutions to important organizational challenges. In this way, students will gain the requisite knowledge and skills necessary to become more effective working professionals. P- or C- (For BEM majors only) BEM 287.

### **BEM 221. Principles of Marketing. (3 h)**

Investigates the means by which firms create, maintain, and improve relationships with customers through the development of strong brands and effective marketing programs. Emphasizes the application, rather than the acquisition, of marketing knowledge. Explores how the four Ps-product, price, place, and promotion-can be used to solve problems, exploit opportunities and meet challenges in the global marketplace. Discussions, cases, objective tests, in-class exercises and a marketing campaign project are among the instructional methods used. P-ECN 150, ACC 111, or POI.

### **BEM 241. Production and Operations Management. (3 h)**

Introduces the basic concepts of operations strategy and operations planning in support of the business strategy of the firm. Topics include: operations strategy, quality management, project planning and control, capacity planning, location, layout, demand forecasting, supply chain management, aggregate planning, production scheduling, and inventory systems. P-BEM 201; STA 212 for MBU majors.

### **BEM 251. Management Information Systems. (3 h)**

Introduction to the business issues associated with information systems, designed to provide a broad perspective for utilizing and managing an organization's information resources. Frameworks are presented for understanding the placement and relationship of different types of information systems within an organization. Includes an overview of computing technology currently used in business organizations, techniques for developing and implementing information systems, advanced applications of information technology, and the strategic implications of information systems and technology for business.

### **BEM 261. Legal Environment of Business. (3 h)**

Study of the legal environment in which business decisions are made in profit and nonprofit organizations. Emphasis is on how the law develops and how economic, political, social, international, and ethical considerations influence this development. Includes an overview of private law topics (such as torts, contracts, and agency) and public regulation of the employment relationship, the competitive marketplace and the environment. P- or C-ACC 111.

### **BEM 287. Professional Development Workshop Series A. (0-1.5 h)**

Enhances students' career-building skills through a series of workshops designed to address specific dimensions of professional development and career management. Students select from a menu of opportunities available during their first year in the management program, content varies. Pass/Fail only. P-Admission to the School of Business and the BEM major.

### **BEM 312. Human Resource Management. (3 h)**

Focuses on important human resources management (HRM) skills that are frequently used by general managers. Upon completion of the course, students should be literate in basic HRM concepts, knowledgeable of general managers' HRM responsibilities, and skilled in HRM applications as prospective managers. P- BEM 211.

### **BEM 315. Managing in a Global Context. (3 h)**

Focuses on professional effectiveness in a global setting, whether in a global company, leading a global team, or doing business abroad. Emphasis is on cross-cultural differences and their impact on the conduct of business. Conducted in a seminar format, the course examines the complexities involved in operating in different cultures and the implications which these cultural differences have on managing organizations and employee behavior. P-BEM 211 or POI.

### **BEM 316. Leading in Nonprofit Sector. (3 h)**

Explores the role of nonprofit organizations (churches, schools, civic organizations, health clinics, etc.) and examines how to effectively lead them. Basic knowledge areas of responsibility in nonprofit organizations (i.e. legal classifications and issues, recruiting and managing volunteers, community development, fundraising, board development and ethical concerns) are covered. Pertinent leadership theories and issues addressed. One half of the available seats are open to non-School of Business majors. P-Junior or senior standing.

### **BEM 318. Calloway Leadership Experience. (3 h)**

Explores the history, art, science and practice of leadership in organizational settings. Focuses on theories and contemporary applications of such issues as change, vision, communication, coaching, followership, and motivation. The experience will capitalize on liberal arts background, previous business courses and students' practicum experience to demonstrate practical leadership insights. Emphasis will be placed upon merging theory and practice using experiential learning to prepare students to excel in leadership positions in their organizations and communities. P - Senior standing and BEM 287.

### **BEM 322. Global Marketing Strategy. (3 h)**

Builds on BEM 221 to explore strategic issues in the global marketplace in greater depth through intensive examination of cases from consumer and industrial markets; product and service businesses; and for-profit and nonprofit organizations. Analyzes social, cultural, economic, legal, and political factors present in the global marketplace and their impact on planning and implementing marketing strategy. Focuses on building analytical and decision-making skills. Objective is to ensure students understand the key role of marketing strategy in achieving and maintaining competitive advantage in an ever-changing, increasingly complex global business environment. P-BEM 221.

### **BEM 323. Selected Topics in Marketing. (3 h)**

Identifies the most current marketing topics and practices in the dynamic global marketplace and covers them in detail. Focuses on the application of leading-edge concepts and ideas in the creation of superior marketing strategies. Seminar approach requires active student participation in the identification, elaboration, and discussions of course material. P-BEM 221.

**BEM 324. Marketing Research. (3 h)**

Introduction to fundamentals of research methodology and use of research information in marketing decision-making. Topics include research design, data collection methods, scaling, sampling, and alternate methods of statistical data analysis. Students design and execute their own research projects. P- BEM 201 and 221.

**BEM 325. Consumer Behavior. (3 h)**

Focuses on understanding the customers/consumers/buyers/clients/patients/patrons without whom marketing and business cannot survive. Examines consumer motivations, influences, decision-making processes and behaviors as they relate to the development of competitive marketing strategy. Discussions, mini-cases, in-class exercises, and a project are among the instructional methods used in the course. P- BEM 221 or POI.

**BEM 326. Brand Management and New Product Development. (3 h)**

Provides students with a unique insight into the role of a brand manager charged with identifying and implementing strategies to measure, manage and build brand equity over time. Special emphasis will be placed on identifying new sources of profitable growth while enhancing brand equity through strategic new product development. A team-based approach is utilized and supported by lectures, case studies, guest speakers, and a semester-long brand equity assessment/new product development project. P-BEM 221.

**BEM 327. Marketing Communications. (3 h)**

Designed for students whose career plans involve making strategic marketing decisions. Emphasizes ways to foster relationships with consumers by establishing a dialogue through advertising, consumer and trade promotions, the Internet, direct mail, publicity, packaging, point of sale material and event sponsorship. Discussions, cases, in-class exercises, oral presentations, and a marketing communications campaign project are among the instructional methods used in the course. P- BEM 221.

**BEM 328. Sports Marketing. (3 h)**

Focuses on the application of the strategic marketing process to the rapidly growing sports industry. Varied elements of the industry are examined: understanding the sports consumer; marketing and media; advertising and communication; promotion and special events; licensing; and corporate sponsorships. Current research, including gender-specific marketing, using athletes as endorsers, segmenting the sports market, measuring value of sponsorship, and the impact of technology on sports are covered. P- ECN 150 or equivalent.

**BEM 329. Marketing Analytics. (3 h)**

This course will cover the principles and strategic concepts of marketing analytics, a high-growth area that uses quantitative strategies, resource allocation decisions, and return on marketing investment (ROMI). Topics may include forecasting and positioning; predictive analytics; customer profitability; digital and social media analytics; and resource allocation. P - BEM 201, 221.

**BEM 332. Financial Statement Analysis. (1.5 h)**

This course is intended to present you with a framework for using financial and market information to analyze a business and assess its potential market value. The focus will be on the information included in a firm's financial statements and the accompanying notes, however you will also consider how other available information is relevant to this analysis. Throughout the semester we will examine (i) how to analyze and assess a company's business strategy, (ii) how to interpret and analyze differences in firm-specific application of accounting techniques, (iii) how to analyze financial data in a systematic and logical method, (iv) techniques for forecasting financial information, and (v) techniques for equity valuation. These components will then be pulled together into a comprehensive framework for evaluating a business focusing on the available financial information. P-ACC 111, 221; FIN 231; BEM 201, P or C-BEM 371, or POI.

**BEM 342. Project Management. (1.5 h)**

With today's problems being increasingly more complex, this course offers an important skill set addressing these problems by covering concepts and issues important in effectively managing projects. Some of the topics are project selection, project planning, resource allocation, project control, project auditing, as well as team creation and team leadership. Upon completion of this course, students will have an understanding of the challenges and opportunities involved in project management. They will also understand the types of decisions involved in effectively completing a project meeting stakeholders' expectations, on time, and within budget. P-ACC 111, 221; FIN 231; BEM 201, P or C-BEM 371, or POI.

**BEM 362. Contemporary Issues in Law and Public Policy. (3 h)**

In a seminar setting, the course explores emerging topics that have the capacity to affect the marketplace in significant ways. Flowing naturally from previous law-oriented classes, it provides the opportunity for students to delve more deeply and critically into the actual policies that give rise to legislation, case precedent, and regulation. As such, the course encourages strategic thinking about decision-making in a complex, ever-changing business environment. P-BEM 261.

**BEM 365. Ethics and Business Leadership. (3 h)**

An interdisciplinary exploration of ethics applied to business. Lectures, readings, and case-based approach introduce the necessary background information. Examples of ethical and unethical situations are used to develop an understanding of how an efficient and effective business can also be ethical. P- Junior or senior standing.

**BEM 371. Strategic Management. (3 h)**

Focuses on the derivation of competitive advantage and sustainable, superior performance by organizations. Emphasizes the shape, character, and overall direction of the total enterprise, and the activities of managers who are responsible for achieving strategic coordination and coherence across functions and divisions. Course content includes analyzing the effects of industry and competitive environments on the firm, determining the basis upon which the firm should compete, formulating and implementing integrative action plans, and strategic leadership. Strategy analysis frameworks are applied to situations including for-profit and nonprofit organizations, diversification, global strategy, and strategic change. This is a discussion-oriented class in which principles of strategic management are applied to complex case studies. P-(all majors) BEM 211, 221 and FIN 231. P or C-(all majors) BEM 241. P-(BEM majors only) BEM 287, 389.

**BEM 372. Strategic Management in Entrepreneurial Firms. (3 h)**

Core foundational concepts in strategic management are critically examined in the context of entrepreneurial firm settings. Emphasis is placed on applying principles of competitive analysis and strategic planning using case studies of startups, fast-growth firms, young firms in rapidly-changing industries, firms confronting early organizational life cycle problems, and new ventures seeking to expand internationally. Unique strategy issues confronted by new venture and by firms operating in electronic commerce, technology, and other fast-paced industries will be considered. This is a discussion-oriented class in which principles of strategic management are applied to complex case studies. P (All majors)-BEM 211, 221 and FIN 231. P or C-BEM 241. P-(BEM majors only)-BEM 287 and BEM 389.

**BEM 375. Contemporary Issues in Business and Foundations of Capitalism. (3 h)**

Explores contemporary business issues such as corporate social responsibility, government regulation of business, health care and/or tax policy implications for business, stakeholders versus stockholders, and sources of economic development in less-developed nations. To do so we examine the foundations of capitalism its moral and intellectual underpinnings, the principal arguments that challenge and support capitalism and free markets, and the obligations of free institutions in society. This will be accomplished by reading a combination of novels, the work of leading political economists who have shaped generations of thinking at the highest levels of government and academia about capitalism, economics and free markets and recently-published works by business and political leaders.

**BEM 377. Entrepreneurship. (3 h)**

Exposes students to multiple facets of entrepreneurship and teaches about creating new ventures in a very hands-on fashion. A broad range of ideas, readings, and cases enable students to understand the ambiguous and highly-charged environment of entrepreneurship, the contribution of entrepreneurial endeavors to business and society, and the characteristics of successful new venture startups. Focuses on three areas that define successful entrepreneurial pursuit of new for-profit, non-profit, and social enterprise initiatives: recognizing opportunity, management, and assembling resources. The completion of a team-based business plan for a new venture is usually required. Guest speakers present their views of entrepreneurial organizations based on real-world experiences- startup, financing, legal, transition, failure, etc. P-BEM 211, 221, and FIN 231, or POI.

**BEM 381. Individualized Reading and Research. (1-3 h)**

Directed study in specialized areas of business. P- POI.

**BEM 382. Management in the Visual Arts. (3 h)**

Taught by faculty from the School of Business and the Art Department. It provides both art and business students with the essential skills, pragmatic experiences, and a conceptual framework for understanding the role the visual arts play within the national and international economies. Students receive preparation for involvement in art galleries, auction houses, museums, and publishing, as well as for contributions to various boards and organizations that commission or purchase works of art. The marketing, financial, legal, and strategic aspects of art management are explored. Emphasis is on dialogue between art majors and business majors enrolled in the course. Field study in at least one major metropolitan area for the purpose of gaining intensive exposure to professional arts management is required, but the majority of travel costs are covered by the University. One half of enrollment spaces are available for students who have been accepted into the School of Business; the remaining half of the spaces are available to declared art majors with junior standing or higher. Also listed as ART 297. P-Junior or senior standing and POI.

**BEM 383. Seminar in Negotiations. (3 h)**

Focuses on the process of conducting successful negotiations in a business setting. Introduces concepts, theories, and analytical frameworks that underlie common negotiation techniques. Practical skills are emphasized through negotiation exercises and the analysis of contemporary business situations. Lectures, discussions, and role plays are among the instructional methods used. P- Senior status or POI.

**BEM 384. Design-Thinking and High-Performance Teams. (3 h)**

In this experiential class, we study the evolution of high-performance teams in design-thinking environments. At its core, design thinking is an approach to innovative problem solving that balances art, science, and business perspectives in realistic and highly impactful ways. In this course we develop the ability to participate in and lead high-performance teams within a design-thinking environment. The course involves an action-learning project that applies the perspectives of anthropology, history, political science, communication, and psychology, among others, in solving a real-world problem. Also listed as ENT 384.

**BEM 385. Why Business. (3 h)**

Business is about the creation of value in society, but the goals of the noble profession of business are often deemphasized. This course examines the philosophical, legal, and economic foundations of business and the ways the institutions of our society challenge and support the creation of value. Students will explore their place in this system as professionals who steward the broader system of business. P-Junior or senior standing; or POI.

**BEM 386. Selected Topics in Real Estate. (1.5 h)**

Examines the most pertinent topics in real estate. Focuses on subjects such as ownership and interest, the legal aspects of real estate, real estate finance and real estate trends. P-Senior standing and POI.

**BEM 388. Management Simulation. (1.5 h)**

Designed to integrate the functional areas of business through the use of an experiential simulation exercise. The simulation that provides the foundation of this course requires students to draw on their learning from previous courses in operations, marketing, finance, human resource management, information systems and strategic management. Students are organized into cross-functional management teams, and the teams are required to make plans for a business enterprise operating in a competitive environment, make critical managerial decisions in response to real-world situations that arise, and present their work to a faculty committee. P-Senior standing and BEM 211, BEM 221, BEM 241, BEM 251, and FIN 231; P or C-BEM 371 or 372 (MBU majors are exempt from strategy requirement).

**BEM 389. Management Internship. (3 h)**

The internship is a supervised learning experience that applies business coursework to an actual work environment for academic credit. The internship is subject to approval and consists of both academic and on-the-job learning components. P- Acceptance as a BEM major and completion of 15 hours of School of Business credit which must include BEM 211 and 287.

**BEM 391. Global Business Studies. (3 h)****BEM 392. Seminar in Mathematical Business Analysis. (3 h)**

Provides mathematical business majors with a forum where they can actually see how the mathematical, statistical and computer techniques can be brought to bear on many business problems in a variety of business functions. Emphasis is more on studying the process of modeling and implementation issues of the solutions and less on the algorithmic details. Critical and reflective thinking about models and translation of their results into management action that will add value to a process or a system is a major objective. Another objective of the seminar is to foster group work and the sharpening of presentation skills. P-BEM 211, 221, 241, FIN 231, MST 253, 353, and STA 212.

**BEM 393. Principles of Risk Management. (3 h)**

Intended to assist students in identifying and analyzing risk and in managing it through a variety of mechanisms. Techniques such as loss control, risk retention, and risk transfer are discussed. This course also includes professional risk management field work, under the direction of a faculty member. Students will gain relevant practical experience that is integrated with casework and risk management theory. Emphasis is on analysis, decision-making in a global environment, teamwork, written and verbal skills, presentation skills, and using technology to solve problems. P-Junior or senior standing and POI.

## Business (BUS)

**BUS 101S. Introduction to Business Software. (1.5 h)**

Provides students with basic skills in business software. Focuses on software for presentations, spreadsheets, and databases. In addition, students are familiarized with databases provided through the library and through the Internet that facilitate their ability to do research. This course does not count towards a School of Business degree. Summer only.

**BUS 111. Professional Life Skills. (1.5 h)**

Provides students with the basics of managing their personal finances and employee benefits. Focuses on topics such as: personal banking and budgeting fundamentals; individual credit and tax issues; employee investment and insurance options; and home rental or purchase considerations. Open to School of Business and non-School of Business students. Does not count towards a School of Business degree. Pass/Fail only.

**BUS 181. Field Study. (1 h)**

Directed field study in specialized areas of business. Does not count towards a School of Business degree. Pass/Fail only. Limit of 2. P-ACC 111, POI.

**BUS 281. Individualized Reading and Research. (1-3 h)**

Directed study in specialized areas of business. P-POI.

**BUS 295. Summer Management Program. (8 h)**

A study of the various functions of business including accounting, finance, information systems, management, marketing, production, and strategic planning. Special application and admission procedures. Does not count towards a Calloway Major. Pass/Fail only. Offered only in the summer and open only to junior and senior liberal arts majors.

**BUS 296. Silicon Valley Practicum. (3 h)**

The practicum, which includes on-the job and academic components, is a supervised learning experience that applies the foundational business skills learned in the Summer Management Program. Required residency in Northern California. Special application and admissions procedures. Applicants must successfully complete BUS 295 Summer Management Program. Does not count toward a business major.

**BUS 297. SportsCOM. (6 h)**

Study of the concepts, operations, and management principles associated with the sports industry. Students are introduced to such areas as the foundation of sports management, sociology of sports, sports marketing, psychology of coaching, sports economics and finance, ethics in management of sports organizations, legal issues in sports management, athletics administration, facilities management, and the strategic management of sports organizations. Students may not receive credit for both BUS295 and BUS297. Pass/Fail only. Offered only in the summer with preference given to first-year students.

**BUS 350. General International Elective. (1-3 h)**

## Chemistry (CHM)

**CHM 108. Everyday Chemistry. (4 h)**

Introduction to chemistry for non-science majors. Laboratory covers experimental aspects of topics discussed in lecture. Does not count towards the major or minor in chemistry. C-CHM 108L. (D, QR)

**CHM 108L. Everyday Chemistry Lab. (0 h)**

C-CHM 108.

**CHM 111. College Chemistry I. (3 h)**

Fundamental chemical principles. Also offered in Salamanca. C-CHM 111L. (D, QR) (Offered Fall Only)

**CHM 111L. College Chemistry I Lab. (1 h)**

Laboratory covers experimental aspects of basic concepts. C-CHM 111. (Offered Fall Only)

**CHM 120. Physics and Chemistry of the Environment. (4 h)**

Covers the basic physical and chemical processes in the earth's atmosphere, biosphere and the oceans. Also listed as PHY 120. (D, QR)

**CHM 120L. Physics and Chemistry of the Environment Lab. (0 h)**

C-CHM 120.

**CHM 122. Organic Chemistry I. (3 h)**

Principles and reactions of organic chemistry. Students may not receive credit for both CHM 122 and CHM 123. P-CHM 111. C-CHM 122L. (D) (Offered Spring Only)

**CHM 122L. Organic Chemistry I Lab. (1 h)**

P-CHM 111. C-CHM 122. (Offered Spring Only)

**CHM 123. Organic Chemistry I Honors. (3 h)**

Principles and reactions of organic chemistry. Freshmen only, by invitation. P-CHM 111. C-CHM 123L. (D) (Offered Fall Only)

**CHM 123L. Organic Chemistry I Honors Lab. (1 h)**

P-CHM 111. C-CHM 123. (Offered Fall Only)

**CHM 223. Organic Chemistry II. (3 h)**

Principles and reactions of organic chemistry. P-CHM 122 or 123. (Offered Spring and Fall)

**CHM 223L. Organic Chemistry II Lab. (1 h)**

P or C-CHM 223.

**CHM 280. College Chemistry II. (3 h)**

Advanced study of fundamental chemical principles. P-CHM 111. (D, QR) (Offered Spring Only)

**CHM 280L. Theory and Methods of Quantitative Analysis Lab. (1 h)**

Emphasizes technique development for accuracy and precision. P or C-CHM 280. (Offered Spring Only)

**CHM 301. Elective Research. (0 h)**

P-POI. Summers only.

**CHM 302. Elective Research. (0 h)**

P-POI. Summers only.

**CHM 311. Current Topics. (1-4 h)**

Course exploring current topics in chemistry. May be repeated for credit if course content differs. Does not count toward the major or minor in chemistry. P-POI.

**CHM 321. Intermediate Organic Chemistry. (3 h)**

Survey of advanced topics in organic chemistry including stereochemistry, conformational analysis, reaction mechanisms, organometallic chemistry and asymmetric synthesis. P-CHM 223, CHM 223L, and CHM 280.

**CHM 324. Medicinal Chemistry I. (3 h)**

An introduction to drug targets, mechanism, design, and synthesis. P-CHM 223, 370. (Offered Fall Only)

**CHM 324L. Medicinal Chemistry Laboratory. (1.5 h)**

A lab designed to introduce the concept of structure-activity relationships (SAR) using computation, synthetic chemical, physicochemical, and biological techniques. P-CHM 223L. P or C-CHM 324.

**CHM 334. Chemical Analysis. (4 h)**

Theoretical and practical applications of modern methods of chemical analysis. P-CHM 280L. C-CHM 334L. (Offered Fall Only)

**CHM 334L. Chemical Analysis Lab. (0 h)**

Lab only. No credit. C-CHM 334.

**CHM 341. Physical Chemistry I. (3 h)**

Fundamentals of thermodynamics and phenomenological kinetics, and introductory computational methods. Also offered in Salamanca. P-CHM 280, MST 112. P or C-PHY 114 or 124. (Offered Fall Only)

**CHM 341L. Physical Chemistry I Lab. (1 h)**

P-CHM 280L. P or C-CHM 341, PHY 114 or 124.

**CHM 342. Physical Chemistry II. (3 h)**

Fundamentals of quantum mechanics, statistical thermodynamics, and introductory computational methods. P-CHM 341, MST 112, and PHY 114 or 124. P or C-MST 113. (Offered Spring Only)

**CHM 342L. Physical Chemistry II Lab. (1 h)**

P or C-CHM 342.

**CHM 351. Special Topics in Chemistry. (3 h)**

Courses in selected special topics in chemistry. May be repeated for credit if course content differs. P- POI.

**CHM 361. Inorganic Chemistry. (3 h)**

Principles and reactions of inorganic chemistry. P or C-CHM 280. C-CHM 361L. (Offered Spring only)

**CHM 361L. Inorganic Chemistry Lab. (1 h)**

P-CHM 280L. C-CHM 361.

**CHM 362. Nanochemistry in Energy and Medicine. (3 h)**

Advanced topics in nanomaterials science, photochemistry, energy conversion optoelectronics and biomedical photonics. P-CHM 280 and CHM 280L.

**CHM 364. Materials Chemistry. (3 h)**

A survey of inorganic-, organic-, bio-, and nano-materials, including hybrid materials and applications. P-CHM 280 (Offered every other spring).

**CHM 364L. Materials Chemistry Lab. (1 h)**

Synthesis of inorganic and organic based materials and their characterization. P-CHM 280L. P or C-CHM 364.

**CHM 366. Chemistry and Physics of Solid State Materials. (3 h)**

Design, synthesis, structure, chemical and physical properties, and the application of solid state materials. P- CHM 280.

**CHM 370. Biochemistry I: Macromolecules and Metabolism. (3 h)**

Introduces principles of biochemistry including structure, function, and biosynthesis of biological molecules, analysis of enzyme function and activity, bioenergetics, and regulation of metabolic pathways. Also listed as BMB 370 and CHM 370. P-any two of the following with associated labs: CHM 122 (or CHM 123), CHM 280 or BIO 214; or any two of the following: CHM 122 (or CHM 123), CHM 280, or BIO 265.

**CHM 370L. Biochemistry Lab. (1 h)**

Overview of biochemical approaches to study structure and function of macromolecules. Does not count towards the chemistry major with concentration in biochemistry. Also listed as BIO 370L. Credit allowed for CHM 370L/BIO 370L or CHM 371L/BIO 371L/BMB 371L, but not both. P or C-CHM 370/BIO 370/BMB 370.

**CHM 371L. Advanced Biochemistry Lab. (1.5 h)**

Emphasizes approaches for isolation and analysis of enzymes. Required for BMB major and the chemistry major with concentration in biochemistry. Recommended for research focused students. Also listed as BIO 371L and CHM 371L. Credit allowed for BIO 370L/CHM 370L, or BMB 371L/BIO 371L/CHM 371L, but not both. P or C-BMB 370/BIO 370/CHM 370.

**CHM 373. Biochemistry II. (3 h)**

Examines the structure, function, and synthesis of proteins and nucleic acids and includes advanced topics in biochemistry including catalytic mechanisms of enzymes and ribozymes, use of sequence and structure databases, and molecular basis of disease and drug action. Also listed as BMB 373. P-CHM 223 and BIO 370/BMB 370/CHM 370.

**CHM 376. Biophysical Chemistry. (3 h)**

Fundamentals of physical chemistry applied to biological molecules, including thermodynamics, kinetics, quantum mechanics, and spectroscopy. Emphasizes modern experimental approaches used to analyze biological systems. Also listed as BMB 376. P-CHM 280, BIO/BMB/CHM 370, PHY 114. P or C-MST 112.

**CHM 381. Chemistry Seminar and Literature. (0.5 h)**

Discussions of contemporary research and introduction to the chemical literature and acquisitions of chemical information. Pass/Fail only. P-CHM 122 or 123. (Offered Fall Only)

**CHM 390. Chemical Research Experience. (0, 1.5 h)**

Research experience and written report. Requires pre-approval of research project conducted off the Reynolda campus, by prearrangement. Pass/Fail only. May be repeated for credit.

**CHM 391. Undergraduate Research. (0.5-3 h)**

Undergraduate research and written report. Lab-3-16 hours. May be repeated for credit. P-POI. (Offered Fall Only)

**CHM 392. Undergraduate Research. (0.5-3 h)**

Undergraduate research and written report. Lab-3-16 hours. May be repeated for credit. P-POI. (Offered Spring Only)

**CHM 395. Senior Capstone. (0.5 h)**

Discussions of contemporary research and integration of chemical information with scientific dissemination. Pass/fail only. P or C-CHM 361. (Offered Spring Only)

## Chinese (CHI)

**CHI 101. First-year Chinese I. (4 h)**

Two-semester sequence designed to develop students' elementary Chinese communication skills in simple daily life contexts. Reading, writing, listening, and speaking are given equal weight, with emphasis on listening and speaking skills in class.

**CHI 102. First-year Chinese II. (4 h)**

Two-semester sequence designed to develop students' elementary Chinese communication skills in simple daily life contexts. Reading, writing, listening, and speaking are given equal weight, with emphasis on listening and speaking skills in class. P-CHI 101 or equivalent.

**CHI 153. Second-year Chinese I. (4 h)**

Two-semester sequence designed to develop students' Chinese communication skills in a wide range of daily life contexts, including some work scenarios. Students will gain a basic appreciation of cultural differences. P - CHI 102 or equivalent.

**CHI 201. Second-year Chinese II. (4 h)**

Two-semester sequence designed to develop students' Chinese communication skills in a wide range of daily life contexts, including some work scenarios. Students will gain a basic appreciation of cultural differences. P - CHI 153 or equivalent.

**CHI 220. Third-year Chinese I. (3 h)**

Two-semester sequence designed to enhance students' Chinese communication skills, with emphasis on accuracy and fluency on various topics at more abstract levels. Students will deepen their understanding of cultural differences. P - CHI 201.

**CHI 230. Third-year Chinese II. (3 h)**

Two-semester sequence designed to enhance students' Chinese communication skills, with emphasis on accuracy and fluency on various topics at more abstract levels. Students will deepen their understanding of cultural differences. P - CHI 220 or POI.

**CHI 231. Fourth-year Chinese I. (3 h)**

Continuation of CHI 230, with emphasis on comprehending and producing more complex and sophisticated Chinese. Students will develop an advanced understanding of cultural differences. P - CHI 230 or POI.

**CHI 255. Business Chinese. (3 h)**

Communicating in Mandarin Chinese for business purposes. This course will prepare students to start a job search and build partnerships in Chinese-speaking areas, with emphasis on developing advanced intercultural communicative capability. P-CHI 230 or POI.

**CHI 290. Chinese Abroad. (3 h)**

Teaches reading and writing in Chinese language. Designed to accompany concurrent courses taken abroad in conversational Chinese and to provide a rigorous framework for the study and memorization of Chinese characters. Not offered on the Wake Forest campus. May be repeated for credit with POI.

**CHI 291. Special Topics in Chinese. (3 h)**

Develops students' confidence and skills in handling topical issues in Chinese society and culture using authentic materials. Designed for students who have completed CHI 231 at Wake Forest and/or through study abroad. P-CHI 231 or POI.

**CHI 296. Chinese across the Curriculum. (1 h)**

Coursework in Chinese completed as an adjunct to specially-designated courses throughout the college curriculum. P-POI.

**CHI 299. Individual Study. (1-3 h)**

P-POI.

**CHI 351. Classical Chinese. (3 h)**

Vocabulary and syntax of the written Chinese language prior to the 20th century, including readings from the 4th century BC authors such as Mencius, along with writings from later centuries. P-POI.

## Classics (CLA)

**CLA 151. Ethics in Greece and Rome. (1.5 h)**

Reading and discussion of Aristotle's *Ethics* and Cicero's *On Moral Duties*, with attention to our own ethical dilemmas. A knowledge of the Greek and Latin languages is not required.

**CLA 252. Women, Gender, and Sexuality in Antiquity. (3 h)**

Exploration of women's roles in the ancient Mediterranean world and the intersections of gender, sexuality, and power in Greek and Roman society through the study of historical, archaeological, artistic, and literary sources, with a variety of theoretical and methodological approaches. A knowledge of the Greek and Latin languages is not required. (CD, D)

**CLA 255. Classical Epic: Iliad, Odyssey, Aeneid. (3 h)**

Study of the three principal epic poems from ancient Greece and Rome. A knowledge of the Greek and Latin languages is not required. (D)

**CLA 259. Vergil and His English Legacy. (3 h)**

Study of Vergil's "Eclogues," "Georgics," and selected passages of the "Aeneid," and their reception by English literature, using translations and original works by writers of the sixteenth through the eighteenth centuries, including Spenser, Marlowe, Milton, Dryden, and Pope. Knowledge of Latin is not required. (D)

**CLA 261. Greek Myth. (3 h)**

Consideration, principally through close study of selected literary works, of Greek myth from the Classical, Archaic, and Hellenistic periods, and in Roman literature; the course also will consider Greek myth's afterlife in the modern period. A knowledge of the Greek language is not required. (D)

**CLA 263. Greek Tragedy. (3 h)**

Study of the plays of Aeschylus, Sophocles, and Euripides. A knowledge of the Greek language is not required. (D)

**CLA 264. Greek & Roman Comedy. (3 h)**

Study of representative works of Aristophanes, Menander, Plautus, and Terence, with attention to the performance and audiences of comedy and to the differences among and within comic genres. A knowledge of the Greek and Latin languages is not required. (D)

**CLA 272. A Survey of Latin Literature (in English). (3 h)**

Study of selections from Latin literature in English translation. A knowledge of Latin language is not required. (D)

**CLA 280. Topics in the Ancient Mediterranean World. (3 h)**

Study of topics in the literary and material culture of the Greco-Roman World. (CD, D)

**CLA 281. Classics Beyond Whiteness. (1.5, 3 h)**

Studies misconceptions that ancient Greeks and Romans were white; race in Graeco-Roman societies; the role of Classics in modern racial politics; and non-white approaches to Classics. Considers race as social construct; white supremacy, fragility, and privilege; and critical-race-theoretical study of ancient cultures. (CD, D only with the 3-hour option)



**CLA 374. Special Topics. (1.5-3 h)**

Special topics in classical literature and culture. May be repeated for credit.

**CLA 375. The Age of Pericles. (3 h)**

Study of Greek culture in all its aspects during the 5th century. A knowledge of the Greek language is not required. (CD, D)

**CLA 376. The Age of Augustus. (3 h)**

Study of Roman culture in all its aspects during the early Empire. A knowledge of the Latin language is not required. (CD, D)

**CLA 381. Seminar in Classical Studies. (3 h)**

Offered by members of the faculty on topics of their choice. A knowledge of Greek and Latin languages is not required. May be repeated for credit. P-any previous course in Classics, Greek, or Latin, or POI.

**CLA 388. Individual Study. (1.5, 3 h)**

Course may be repeated for a total of 6 hours. P-POI.

**CLA 391. Honors in Classical Studies. (1.5 h)**

Directed research for the honors paper. P-POD.

**CLA 392. Honors in Classical Studies. (1.5 h)**

Directed research for the honors paper. P-POD .

## Communication (COM)

**COM 100. Introduction to Communication and Rhetoric. (1.5 h)**

An introduction to the theories, research, and analysis of verbal and nonverbal processes by which human beings share meanings and influence one another. (D)

**COM 102. Debate and Advocacy. (3 h)**

The use of argumentative techniques in oral advocacy: research, speeches, and debate. (D)

**COM 110. Public Speaking. (3 h)**

A study of the theory and practice of public address. Lab experiences in the preparation, delivery, and critique of informative and persuasive speeches. (D)

**COM 113. Relational Communication. (3 h)**

Introduction to relational communication theory, research and principles. (D)

**COM 120. Introduction to Film and Media Aesthetics. (3 h)**

Introduction to the major theories and aesthetics of motion pictures and other media forms through a study of styles related to writing, directing, cinematography, editing, and sound. (D)

**COM 215. Broadcast Journalism. (3 h)**

An introduction to the theory and practice of broadcast journalism. Topics will include ethics, technology, and the media as industry, and projects will address writing, producing, and performing for radio and television. Also listed as JOU 355.

**COM 220. Empirical Research in Communication. (3 h)**

An introduction to methodological design and univariate statistics as used in communication research. (QR)

**COM 225. Rhetorical Theory and Criticism. (3 h)**

Introduces students to the historical and critical analysis of rhetoric. Examines current methods of rhetorical criticism with a view to researching and composing a critical paper in the field.

**COM 230. Interactive Digital Media. (3 h)**

Theoretical and applied study of new digital technologies. Students produce a short-form interactive media project. Offered only in Salamanca.

**COM 245. Introduction to Mass Communication. (3 h)**

A historical survey of mass media and an examination of major contemporary media issues. (D)

**COM 247. Media Production I. (3 h)**

Students produce a variety of short-form media projects. P-COM 120.

**COM 250. Communication in Entrepreneurial Settings. (3 h)**

This course examines work in the gig economy, including freelancing, mobile work, co-working, and precarious work, and the role that communication plays in this work and related experiences.

**COM 262. Writing for Public Relations and Advertising. (3 h)**

Principles and techniques of public relations and applied advertising. Students use case studies to develop public relations and advertising strategies. Also listed as JOU 350. (D)

**COM 270. Special Seminar. (1-3 h)**

An examination of selected topics in communication.

**COM 280. Communication Internship I. (1.5-3 h)**

Individual communication internships to be approved, supervised, and evaluated by an appropriate faculty adviser. Pass/Fail only. P-POI.

**COM 282. Debate Practicum I. (1.5 h)**

Individual projects in debate to be approved, supervised and evaluated by an appropriate faculty adviser. Pass/Fail only. P-POI.

**COM 283. Debate Practicum II. (1.5 h)**

Individual projects in debate to be approved, supervised and evaluated by an appropriate faculty adviser. Pass/Fail only. P-POI.

**COM 284. Production Practicum I. (1.5 h)**

Individual projects or collaborations with appropriate professionals in media production to be approved, supervised, and evaluated by a faculty advisor. Pass/Fail only. P-POI.

**COM 285. Production Practicum II. (1.5 h)**

Individual projects or collaborations with appropriate professionals in media production to be approved, supervised, and evaluated by a faculty advisor. Pass/Fail only. P-POI.

**COM 286. Individual Study. (1-3 h)**

Directed study in an area of interest to be approved and supervised by a faculty adviser. P-POI.

**COM 287. Research Practicum I. (1.5 h)**

Credit opportunities for students to collaborate with faculty on research projects. Awards credit to students assisting faculty with research initiatives led by the faculty. Projects may be short term, culminating in presentation or publication, or longitudinal, where the student participates in an on-going effort. Pass/Fail only. P-POI.

**COM 288. Research Practicum II. (1.5 h)**

Credit opportunities for students to collaborate with faculty on research projects. Awards credit to students assisting faculty with research initiatives led by the faculty. Projects may be short term, culminating in presentation or publication, or longitudinal, where the student participates in an on-going effort. Pass/Fail only. P-POI.

**COM 300. Classical Rhetoric. (3 h)**

A study of major writings in Greek and Roman rhetorical theory from the Sophists to Augustine.

**COM 302. Argumentation Theory. (3 h)**

An examination of argumentation theory and criticism; examines both theoretical issues and social practices.

**COM 303. Directing the Forensic Program. (1.5, 3 h)**

A pragmatic study of the methods of directing high school and college forensics with work in the High School Debate Workshop.

**COM 304. Freedom of Speech. (3 h)**

An examination of the philosophical and historical traditions, significant cases, and contemporary controversies concerning freedom of expression.

**COM 305. Communication and Ethics. (3 h)**

A study of the role of communication in ethical controversies.

**COM 307. The Prophetic Mode in American Public Discourse. (3 h)**

Investigates prophetism as a rhetorical act by examining Biblical forms of prophetic speech and investigating how these forms influence American public discourse.

**COM 308. Speechwriting. (3 h)**

Examines representative historic and contemporary speechwriting, including composition and delivery of ceremonial, legal, and political speeches. Builds practical knowledge through delivery, discussion, and interviews with professional speechwriters.

**COM 309. Visual Storytelling. (3 h)**

The course overviews digital media as well as studying the meaning of how visual images are used in our society. The course is designed to look at the changing landscape of visual storytelling.

**COM 310. Media Production II. (3 h)**

Students produce advanced media projects over which they assume significant creative control. P-COM 247.

**COM 312. Film History to 1945. (3 h)**

A survey of the developments of motion pictures to 1945. Includes lectures, readings, reports, and screenings.

**COM 313. Film History Since 1945. (3 h)**

A survey of the development of motion pictures from 1946 to the present day. Includes lectures, readings, reports, and screenings.

**COM 314. Media Effects. (3 h)**

Theory and research on the influence and effects of mass media on audiences. These include reception, cognitive processing, and attitudinal and behavioral influences.

**COM 315. Communication and Technology. (3 h)**

An exploration of how communication technologies influence the social, political, and organizational practices of everyday life.

**COM 316. Screenwriting. (3 h)**

Introduction to the art and practice of writing for the screen. Through numerous exercises, students learn to use experiences, observations, and imagination to create compelling characters and stories for a variety of mediums and complete an original, short screenplay.

**COM 317. Communication and Popular Culture. (3 h)**

Explores the relationship between contemporary media and popular culture from a cultural studies perspective using examples from media texts.

**COM 318. Culture and Sitcom. (3 h)**

Explores the intersection of American culture and the television situation comedy, one of the oldest and most ubiquitous forms of television programming.

**COM 319. Media Ethics. (3 h)**

Examines historical and contemporary ethical issues in the media professions within the context of selected major ethical theories while covering, among other areas, issues relevant to: journalism, advertising, public relations, filmmaking, and media management.

**COM 320. Media Theory and Criticism. (3 h)**

Critical study of media including a survey of major theoretical frameworks. P-COM 120.

**COM 321. Communication Technology and Entrepreneurship. (3 h)**

Explores how an e-commerce business plan can be developed and the specific ways of marketing e-commerce ventures including the options provided by new tools such as social networking applications. Also listed as ENT 340.

**COM 322. Video Game Theory and Research. (3 h)**

Examines recent theory and research regarding the uses, processing, and effects of video games.

**COM 323. Superheroes, Cinema, and American Mythology. (3 h)**

Examines the emergence of superhero films in American cinema as a representation and response to historical and ideological contexts.

**COM 324. Children and Media. (3 h)**

Investigates theory and research in media and child development in order to explore how children and adolescents process and are affected by electronic media from television to new media.

**COM 325. On Camera Performance. (3 h)**

Introduces the theory and practice of performing for the camera. Covers basic camera, commercial work, how-to videos, newscasting, and other performance formats.

**COM 326. Advanced Screenwriting. (3 h)**

An advanced approach to narrative theory as well as examination of the role of the screenwriter in the motion picture industry, the influence of film genre on screenwriting, and the politics of nontraditional narrative structures. Students are expected to complete an original, feature-length screenplay. P-COM 316.

**COM 327. Social Media Effects. (3 h)**

Explores how we use, make sense of and are affected by social media both intrapersonally and interpersonally. Traditional media and information processing theories are explored; recent research on social media effects is discussed.

**COM 329. The Arab-Israeli-Palestinian Conflict as a Communication Phenomenon. (3 h)**

Explores the evolution of the Arab-Israeli-Palestinian conflict as a communication phenomenon; focusing on the narratives of the parties to the conflict as viewed through the lens of extant communication-grounded conflict theory.

**COM 330. Communication and Conflict. (3 h)**

A review of the various theoretical perspectives on conflict and negotiation as well as methods for managing relational conflict.

**COM 331. Communication and Terrorism. (3 h)**

Examines domestic and international terrorism as grounded in extant communication theory, with emphasis on explicating the role that communication plays in current conceptualizations and responses to terrorism.

**COM 332. Sports, Culture, and Society. (3 h)**

Examines how sport media coverage frames our understanding of society's biggest social issues, including race, gender, and human rights and challenges students to find their voices on these issues through participatory exercises and production projects.

**COM 333. Business of Sports Media. (3 h)**

Examines the intersection of media content, production and business practices, and examines how the digital revolution is changing the game for content creators, leagues and teams.

**COM 334. Narrative Approaches to Entrepreneurship. (3 h)**

Students will examine how entrepreneurship is constructed in and through stories, with attention to diverse and alternative stories. Students will research, write, and publish an entrepreneur profile.

**COM 335. Survey of Organizational Communication. (3 h)**

An overview of the role of communication in constituting and maintaining the pattern of activities that sustain the modern organization.

**COM 336. Organizational Rhetoric. (3 h)**

Explores the persuasive nature of organizational messages—dealing with risk, reputation, image, legitimacy and strategic communication—including those exchanged between organizational members and those presented in behalf of the organization as a whole.

**COM 337. Social Media Marketing in the Creative Arts. (3 h)**

Explores how social media is changing not just what content creators produce, but also how creators engage with their audience through the use of social media and marketing techniques.

**COM 338. African-American Rhetoric. (3 h)**

This course explores how African Americans have invented a public voice in the twentieth century. The course focuses on how artistic cultural expression, in particular, has shaped black public speech. (CD)

**COM 339. Practices of Citizenship. (3 h)**

Explores the history and theory of citizenship as a deliberative practice linked to the rhetorical tradition of communication with an emphasis on participatory and deliberative skills as part of the process in which communities are formed and citizens emerge as members.

**COM 340. Democracy, Slavery and Sex: Emancipation Discourse from the Founding to the Civil War. (3 h)**

Examines the influence of emancipation movements on American public discourse by reading and analyzing original speeches and documents with emphasis on abolition of slavery and woman's rights.

**COM 341. Class, Race, Sex and War: Emancipation Discourse from the Civil War to the Second Wave of Feminism. (3 h)**

Examines the influence of emancipation movements on American public discourse by reading and analyzing original speeches and documents. Among the movements addressed are labor, civil rights, student protest, and women's liberation.

**COM 342. Political Communication. (3 h)**

Study of electoral communication, including candidate and media influences on campaign speeches, debates, and advertising.

**COM 343. Presidential Rhetoric. (3 h)**

Examines theory and practice of speechmaking and mediated presidential communication.

**COM 344. Conspiracy Theories in American Public Discourse. (3 h)**

Study of the role of conspiracy discourse in American public discourse from the nation's founding through modern events.

**COM 345. Rhetoric of Science and Technology. (3 h)**

Examination of how scientific and technological discourses function rhetorically in public arenas to affect non-scientific publics' understanding.

**COM 346. Sport, Media, and Communication. (3 h)**

Examines the role of sport in society, cultural, and institutional practice. Surveys the value represented by interpersonal and mediated messages regarding key dimensions of sport including competition, ethics, gender, and race.

**COM 347. Rhetoric of the Law. (3 h)**

Examination of legal discourses including trial and appeal processes through motions to closing arguments.

**COM 348. Legal Theory, Practice, and Communication. (3 h)**

Introduces students to legal education, the legal system and legal analysis. (Co-taught by Law and Communication faculty - summer)

**COM 349. Advocacy, Debate and the Law. (3 h)**

Students develop and critique speeches, debates, trial practice and moot court across a variety of legal speaking venues. (Co-taught by Law and Communication Faculty - summer).

**COM 350. Intercultural Communication. (3 h)**

Introduction to the study of communication phenomena between individuals and groups with different cultural backgrounds. (CD)

**COM 351. Comparative Communication. (1.5, 3 h)**

A comparison of communicative and linguistic processes in one or more national cultures with those of the United States. Also listed as LIN 351 and INS 349. Credit not given for both COM 351A and INS 349. (CD)

**COM 351A. Comparative Communication: Japan. (1.5, 3 h)****COM 351B. Comparative Communication: Russia. (1.5, 3 h)****COM 351C. Comparative Communication: Great Britain. (1.5, 3 h)****COM 351D. Comparative Communications: Multiple Countries. (1.5, 3 h)****COM 351E. Comparative Communication: China. (1.5, 3 h)****COM 352. Interpersonal Seminar. (3 h)**

Advanced study of theories and research in one or more of the specialized concentrations of interpersonal communications.

**COM 353. Persuasion. (3 h)**

An examination of theories and research concerning the process of social influence in contemporary society.

**COM 354. International Communication. (3 h)**

An in-depth look at the role of mass media in shaping communication between and about cultures using examples from traditional and emerging media systems. (CD)

**COM 355. Survey of Health Communication. (3 h)**

An examination of theories, research, and processes of health communication in contemporary society.

**COM 356. Health Communication: Patient-Provider. (3 h)**

Explores contemporary issues related to communication in health care contexts, notably theories and research on patient-provider communication.

**COM 357. Health Communication and Bioethics. (3 h)**

Examination of the principles behind designing, implementing, and evaluation a health campaign, including message design and application of media theories for behavior change.

**COM 358. Health Communication and Bioethics. (3 h)**

Examination of the problems of justice in health care and the meaning of human dignity in the face of illness and the technologies of treatment.

**COM 360. Communication and Cultures of India: Immersed in India. (3 h)**

Examines the different patterns of communication of the people of India through an immersive experience, a journey from the Himalayas to the oceans, studying the connections between the geography, history, and cultures of India.

**COM 361. Family Communication and Health across the Lifespan. (3 h)**

Investigates how family communication intersects with physical, psychological, and social health across the lifespan.

**COM 365. Imagination Project. (3 h)**

The production of short films, digital study guides, or E-books and/or other types of multimedia materials on important social, political, cultural and economic issues. Opportunities for students to immerse themselves in a topic and interact with scholars from various disciplines (topics vary each year).

**COM 370. Special Topics. (1-3 h)**

An examination of topics not covered in the regular curriculum.

**COM 380. Great Teachers. (1-3 h)**

An intensive study of the ideas of three noted scholars and teachers in the field of communication. Students will interact with each teacher during a two- to three-day visit to Wake Forest.

## Computer Science (CSC)

**CSC 101. Overview of Computer Science. (3 h)**

An introduction to fundamental principles of computer science including abstraction, data and information, the World Wide Web, algorithms, programs, creative computer use, and the global impact of computing. Students cultivate their understanding by working with data, logically solving problems individually and collaboratively, and writing simple computer programs. May not be counted towards the computer science major or minor. (D)

**CSC 102. Problem Solving with Python. (3 h)**

An introduction to fundamental principles of computer science including abstraction, data and information, algorithm development, and computer programming. Students apply computational problem solving skills to representative problems from a range of domains using the Python programming language. Appropriate for students who want computing experience applicable to other disciplines. May not be counted towards the computer science major or minor. (D)

**CSC 111. Introduction to Computer Science. (4 h)**

Introduction to computer programming and algorithmic problem solving in an object-oriented programming language. Topics include basic control structures, methods, parameters, objects, classes, arrays, and program testing and debugging. Recommended as the first course for students considering a major or minor in computer science. (D)

**CSC 112. Fundamentals of Computer Science. (4 h)**

A study of algorithm development and problem solving using top-down design, data abstraction, object-oriented programming, and program debugging and testing. Topics include memory allocation, recursion, data structures such as arrays, lists, stacks, queues, and trees, simple sorting and searching algorithms, and algorithm complexity. P-CSC 111 or POI. (D)

**CSC 165. Problem Solving Seminar. (1 h)**

A weekly seminar designed for students to develop their problem solving skills designing and implementing software. Does not count towards the computer science major or minor. May be taken twice. Pass/Fail. P-CSC 112 or POI.

**CSC 191. Special Topics. (1-3 h)**

Topics in computer science that are not covered in regular courses or that give special practice in skills used in other courses. Not to be counted toward the bachelor of science in computer science. May be repeated for up to 6 hours if the topic changes.

**CSC 192. STEM Incubator. (1 h)**

An engaging and relevant introduction to STEM (science, technology, engineering, and mathematics) through creative exploration, collaboration, and computational problem-solving. Pass/Fail. May be repeated once.

**CSC 192H. Honors STEM Incubator. (1 h)**

Leadership role in developing STEM (science, technology, engineering, and mathematics) ideas and applications through scientific exploration, creative collaboration, and computational problem-solving. For students with some programming experience. Pass/Fail. May be repeated once. P - POI.

**CSC 193. Independent Study. (1-3 h)**

A course of independent study directed by a faculty adviser, not to be counted toward the bachelor of science in computer science. May be repeated for up to 3 hours. Enrollment requires prearrangement with a computer science faculty member and departmental approval P-POI.

**CSC 201. Data Structures and Algorithms. (3 h)**

A study of fundamental data structures and the algorithms that act upon them. Data structure topics include the application, implementation, and complexity analysis of trees, hash tables, heaps, maps, sets, and graphs. Algorithmic topics include advanced sorting and searching methods and an introduction to divide-and-conquer and greedy techniques, graph algorithms, backtracking, and dynamic programming. P-CSC 112 and MST 117. (D)

**CSC 211. Computer Organization. (4 h)**

Lecture and laboratory. Computer organization from the perspective of instructions, including the central processor, busses, input and output units, and memory units. A weekly two-hour laboratory covers combinational logic, loaders and linkers, assembly language, address computation, and other architecture-related functions. Lab-2 hours. P-CSC 111. (D)

**CSC 221. Data Structures and Algorithms I. (3 h)**

Analysis, implementation, and application of abstract data structures such as lists, stacks, queues, trees, hash tables, heaps, and graphs. Complexity analysis of algorithms that operate upon these structures. P-CSC 112. P or C-MST 117. (D)

**CSC 222. Data Structures and Algorithms II. (3 h)**

Study of algorithms, algorithm design strategies, and the derivation of time complexity bounds. Case studies illustrate greedy algorithms, divide and conquer, backtracking, and dynamic programming techniques. An introduction to the classes P, NP, NP-complete, and Turing decidability is included. P-CSC 221 and MST 111 or 112. (QR)

**CSC 231. Programming Languages. (3 h)**

Comparative study of programming language paradigms, including imperative languages, functional programming, logic programming, and object-oriented programming. Syntax, semantics, parsing, grammars, and issues in language design are covered. P-CSC 112 and MST 117.

**CSC 241. Computer Systems. (4 h)**

Lecture and laboratory. Introduction to concepts of operating systems and networks including processor and memory management, concurrency, and protocol independent data communications. Lab-2 hours. P-CSC 112 and MST 117.

**CSC 250. Computer Systems I. (4 h)**

Study of computer system mechanisms supporting program execution, with a focus on mapping programs to underlying hardware. Topics include data representation, assembly language, processor architecture, and the memory system, with an introduction to system-level programming. P-CSC 112 and MST 117. (D)

**CSC 251. Computer Systems II. (3 h)**

Study of computer system mechanisms supporting program execution, with a focus on process and resource management. Topics include process control, virtual memory, concurrency, parallelism, file-based and network-based I/O, and additional coverage of system-level programming. P-CSC 250.

**CSC 301. Algorithm Design and Analysis. (3 h)**

A study of techniques for designing algorithms, analyzing their time and space complexity, and demonstrating their correctness. The algorithm design techniques include divide-and-conquer, greedy algorithms, dynamic programming, randomized algorithms, string processing algorithms, and parallel algorithms. The algorithm analysis includes computational models, best/average/worst case analysis, and computational complexity (including lower bounds and NP-completeness). P-CSC 201 and MST 112. (QR)

**CSC 311. Computer Architecture. (3 h)**

An in-depth study of computer system and architecture design. Topics include processor design, memory hierarchy, external storage devices, interface design, and parallel architectures. P-CSC 211 or 250.

**CSC 321. Database Management Systems. (3 h)**

Introduction to database management systems. Topics include data independence, database models, query languages, security, integrity, and transactions. P-CSC 201 or 221.

**CSC 322. Data Management and Analytics. (3 h)**

Management, analysis, and visualization of large-scale data sets. Topics includes key-value databases, distributed file systems, map-reduce techniques, similarity measures, link analysis, and clustering. P-CSC 321.

**CSC 331. Software Engineering. (3 h)**

Study of fundamental topics in software engineering including software processes, agile software development and project management, requirements engineering, system modeling, design patterns and implementation, and software testing. Students practice software engineering principles through team projects. P-CSC 201 or 221.

**CSC 332. Mobile and Pervasive Computing. (3 h)**

Study of the fundamental design concepts and software principles underlying mobile and pervasive computing, including mobile interface design, data management, mobile networks, location aware computing, and mobile security. Involves significant programming on modern mobile platforms. P-CSC 201 or 221.

**CSC 333. Principles of Translators for Compilers and Interpreters. (3 h)**

Study of techniques for translating high-level programming languages to a target language. Typical target languages include Java bytecode and assembly language. Topics include lexical analysis, parsing, intermediate representations, language semantics, code generation, and optimization. P-CSC 231 and either CSC 211 or 250.

**CSC 341. Operating Systems. (3 h)**

Study of the different modules that compose a modern operating system. In-depth study of concurrency, processor management, memory management, file management, and security. P-CSC 241 or 251.

**CSC 343. Internet Protocols. (3 h)**

Study of wide area connectivity through interconnection networks. Emphasis is placed on Internet architecture and protocols. Topics include addressing, routing, multicasting, quality of service, and network security. P-CSC 241 or 251.

**CSC 346. Parallel Computation. (3 h)**

Study of techniques for parallel and high performance computing. Topics include an overview of modern high-performance computer design, pipelining, concurrency, data dependency, shared memory, message passing, and graphics processors. Select parallel algorithms and methods for asymptotic scalability analysis are also presented. Assignments may include coding with OpenMP, MPI, and the CUDA library. P-CSC 201 or 221.

**CSC 347. GPU Programming. (3 h)**

An introduction to general purpose parallel program development on Graphics Processing Units (GPUs). Topics covered will include data parallelism, memory and data locality, parallel algorithm patterns and performance metrics, and application test studies. P-CSC 201 or 221 and either MST 121, 205 or 206.

**CSC 348. Computer Security. (3 h)**

Introduction to computer security concepts and associated theory. Detailed coverage of the core concepts of access control, cryptography, trusted computing bases, digital signatures, authentication, network security, and secure architectures. Legal issues, security policies, risk management, certification and accreditation are covered in their supporting roles. Students will learn to analyze, design, and build secure systems of moderate complexity. P-CSC 241 or 251.

**CSC 352. Numerical Linear Algebra. (3 h)**

Numerical methods for solving matrix and related problems in science and engineering using a high-level matrix-oriented language such as MATLAB. Topics include systems of linear equations, least squares methods, and eigenvalue computations. Special emphasis given to applications. Also listed as MST 326. P-MST 112; and MST 121, 205 or 206. (D)

**CSC 355. Introduction to Numerical Methods. (3 h)**

Numerical computations on modern computer architectures; floating-point arithmetic and round-off error. Programming in a scientific/engineering language such as MATLAB, C, or FORTRAN. Algorithms and computer techniques for the solution of problems such as roots of functions, approximation, integration, systems of linear equations, and least squares methods. Also listed as MST 355. P-MST 112; and MST 121, 205 or 206. (D)

**CSC 361. Digital Media. (3 h)**

Study of the mathematics and algorithms underlying digital sounds, image, and video manipulation. Topics may include sampling and quantization, resolution, filters, transforms, data encoding and compression, multimedia file types and transmission, 3D printing, and digital media in multimedia and web programming. P-CSC 201 or 221 and MST 111 or 112.

**CSC 363. Computer Graphics. (3 h)**

Study of software and hardware techniques in computer graphics. Topics include line and polygon drawing, hidden line and surface techniques, transformations, and ray tracing. P-CSC 201 or 221; and either MST 121, 205 or 206.

**CSC 365. Image Processing Fundamentals. (3 h)**

Study of the basic theory and algorithms for image enhancement, restoration, segmentation, and analysis. P-CSC 112; and MST 121, 205 or 206.

**CSC 371. Artificial Intelligence. (3 h)**

An overview of areas of study in artificial intelligence. Topics are chosen from among knowledge representation, formal logic, fuzzy logic, intelligent agents, expert systems, machine learning, robotics, and natural language processing. P-CSC 201 or 221.

**CSC 373. Data Mining. (3 h)**

An overview of data mining methods and algorithms for classification, association analysis, clustering, and anomaly detection. A major focus will be on the implementation of algorithms for and design and construction of solutions to data mining problems. Applications and ethical considerations of data mining in humanities, arts, and healthcare are discussed. P-CSC 201 or 221.

**CSC 374. Machine Learning. (3 h)**

An introduction to concepts and application of machine learning algorithms and techniques, focusing on supervised and unsupervised learning. Students learn the theoretical concepts behind several types of machine learning algorithms and gain practical experience applying them. Algorithms covered could include logistic regression, support vector machines, regularization, dimensional reduction, clustering, and neural networks. P-CSC 201 or 221, MST 112 and MST 121, 205, or 206.

**CSC 375. Neural Networks and Deep Learning. (3 h)**

An introduction to concepts and applications of neural networks and deep learning, a branch of machine learning that uses additional layers of high-level representations of data to maximize performance on a given task. The topics covered may include basic neural networks, deep neural networks, and convolutional and recurrent neural networks. Students learn the theoretical concepts behind several types of neural network algorithms and gain practical experience applying them. P-CSC 201 or 221, MST 112, and MST 121, 205 or 206.

**CSC 385. Bioinformatics. (3 h)**

Introduction to computational approaches essential to modern biological inquiry. Approaches may include large biological dataset analyses, sequence similarity and motif searches, and analysis of high-throughput genomic technologies. Emphasizes interdisciplinary interaction and communication. Also listed as CSC 385 and PHY 385. P-CSC 201 or 221 (and BIO 150, 150L, 160, and 160L if taken as BIO 385) or POI.

**CSC 387. Computational Systems Biology. (3 h)**

Introduction of concepts and development of skills for comprehension of systems biology problems, including both biological and computational aspects. Topics may include genome-wide transcriptomic analysis, protein interaction networks, large-scale proteomics experiments, and computational approaches for modeling, storing, and analyzing the resulting data sets. Emphasizes interdisciplinary interaction and communication. Also listed as CSC 387. P-CSC 201 or 221 (also requires BIO 150, 150L, 160, and 160L if taken as BIO 387) or POI.

**CSC 391. Selected Topics. (1-3 h)**

Topics in computer science that are not studied in regular courses or which further examine topics covered in regular courses. May be repeated if topic changes. P - any 200-level CSC course and POI.

**CSC 393. Individual Study. (1-3 h)**

Independent study directed by a faculty adviser. By prearrangement. No more than three hours may be counted toward a computer science major or minor. Enrollment requires prearrangement with a computer science faculty member and departmental approval. P-any 200-level CSC course and POI.

**CSC 399. Computer Science Mastery Exam. (0 h)**

Evaluation of student mastery of core topics in the computer science discipline through standardized testing. Taken during the senior year. Pass/Fail.

## Counseling (CNS)

**CNS 334. Ethics in Health and Human Services. (3 h)**

Investigation of the ethical parameters of health and human services work. Topics include least restrictive interventions, privacy, human dignity and compassionate service. NOHS standards will be studied.

**CNS 335. Health and Human Services in a Diverse Society. (3 h)**

Covers the range and characteristics of health and human services systems and organization, the populations served and their needs and the models for prevention, maintenance, intervention, rehabilitation and healthy functioning. (CD)

**CNS 337. Skills in Human Services. (3 h)**

Introduction to communication skills of listening, reflecting, questioning, and problem-solving. These skills will be examined and practiced using role play and simulations.

**CNS 340. Professional Orientation to Health and Human Services. (3 h)**

Provides an overview of health and human services including history, roles, organizational structures, ethics, standards, specializations, and credentialing. Public policy processes and contemporary issues are also considered.

**CNS 342. Group Procedures. (3 h)**

A conceptual exploration of the psychological dynamics and interpersonal communication of teams and systems including structure, leadership models, process and practice, stages of development, techniques, and ethical principles.

**CNS 350. Wellness and Prevention. (3 h)**

An investigation of holistic approaches to wellness and prevention; frameworks for increasing positive well-being through empirically supported, strength-based concepts.; levels of prevention across applied health and human services settings.

**CNS 352. Addiction. (3 h)**

An exploration of the causes of addiction and pathways to recovery. Medical aspects of addiction and the impact of addiction on the brain and body, theories and models of addiction and recovery, and diagnosis and treatment of persons with substance abuse and co-occurring disorders are considered.

**CNS 353. College Student Development. (2 h)**

A course of study for resident advisors that provides the skills and knowledge necessary to work successfully with college students in a residence environment. Includes student development theory, coping with behavior problems, crisis management, mediating conflict, and other issues.

**CNS 364. Creative Arts in Counseling. (3 h)**

Examines the history, theories, processes and techniques of using the creative arts in counseling with clients throughout the lifespan. Attention is given to the visual and performing arts such as drawing, imagery, photography, cartooning, cinema, movement, dance, literature, drama and music. Juniors and Seniors only.

**CNS 396. Independent Study. (1-3 h)**

Independent study with faculty guidance. May be repeated for up to 6 credit hours. By prearrangement.

## Creative Writing (CRW)

### CRW 100. Introduction to Creative Writing. (3 h)

This workshop explores the fundamentals of writing poetry, fiction, and creative nonfiction. Students analyze the forms of each genre with an eye toward creating literary texts of their own. Through workshops and class discussions, students also learn how to revise their own writing and offer feedback on the work of classmates.

### CRW 285. Poetry Workshop. (1.5, 3 h)

Craft course in the writing of poetry with an emphasis on developing, reading, and discussing student poems in a supportive classroom community. Study of poetic techniques, forms, and revision as well as the works of historical and/or contemporary poets.

### CRW 286. Short Story Workshop. (1.5, 3 h)

Study of fundamental principles of short fiction writing; practice in writing; extensive study of short story form.

### CRW 287. Literary Nonfiction Workshop. (3 h)

Study of the fundamental principles of literary nonfiction, with a focus on subgenres, techniques, and the works of important literary nonfiction writers.

### CRW 300. Topics in Creative Writing. (3 h)

Workshop centering on theme instead of genre. Students study creative writing through the lens of ideas such as hybridity, ecology, and the visual. Through analyzing important texts, workshops, and class discussions, students hone their skills in fiction, poetry, and/or literary nonfiction, as well as improve their abilities to revise and offer feedback on classmates' work. May be repeated with permission. P-a CRW 100- or 200-level course or POI.

### CRW 384. Playwriting. (3 h)

Examines the elements of dramatic structure and their representations in a variety of dramatic writings. Explores the fundamentals of playwriting through a series of writing exercises. Also listed as THE 360.

### CRW 385. Advanced Poetry Workshop. (3 h)

Emphasis on reading and discussing student poems in terms of craftsmanship and general principles. May be repeated once. P-a CRW 100 or 200 course or POI.

### CRW 386. Advanced Fiction Writing. (3 h)

Primarily a short-story workshop, with class discussion on issues of craft, revision, and selected published stories. May be repeated once. P-a CRW 100- or 200-level course or POI.

### CRW 387. Advanced Literary Nonfiction Workshop. (3 h)

Emphasis on the theory and craft of creative nonfiction as well as on contemporary writers of creative nonfiction. May be repeated once. P-a CRW 100- or 200-level course or POI.

## Dance (DCE)

### DCE 101. Beginning Tap Dance. (2 h)

Fundamentals of tap dance technique with an emphasis placed on technique, rhythm, vocabulary, and performance qualities. May be taken two times for credit.

### DCE 120. Beginning Modern Dance Technique. (2 h)

Fundamentals of modern dance technique, with an emphasis placed on movement concepts, vocabulary, technique, alignment, placement, and flexibility. May be taken two times for credit.

### DCE 122. Special Topics in Dance. (1-3 h)

An intensive study of selected topics in dance. May be repeated.

### DCE 124. Social Dance. (1.5 h)

Fundamental techniques of social dance, providing basic skills, concepts of movement, style and fundamental step patterns found in social dance rhythms. Students will learn basic smooth dances, rhythm dances, Latin-American dances and Cuban dances.

### DCE 125. Folk and Social Dance. (1.5 h)

Fundamentals of folk and social dance, providing the basic skills, concepts of movement, style and fundamental step patterns of folk and social dance. Emphasis is on the development of fundamental dance skills and practice in utilizing dance techniques.

### DCE 126. Beginning Jazz Dance. (2 h)

Fundamentals of jazz technique with an emphasis on alignment, isolations, flexibility, basic turns, jumps, and combinations. May be taken two times for credit.

### DCE 127. Beginning Classical Ballet Techniques. (2 h)

Fundamentals of classical ballet technique with an emphasis on alignment, placement, flexibility, barre work, adagio and petite allegro. May be taken two times for credit and two times Pass/Fail.

### DCE 128. Dance Performance. (1 h)

Practical experience in the areas of rehearsal, production, and performance, as a performer in the Fall or Spring Dance Concert. May be taken up to four times for credit.

### DCE 129. Choreography. (1 h)

Practical experience in the areas of rehearsal, choreography production and performance as a choreographer in the Spring Dance Concert. May be taken only once.

### DCE 130. Movement for All. (1 h)

A beginning level dance class for male students that surveys jazz, modern and/or ballet techniques. Emphasis on flexibility, coordination, and efficiency of movement. Eight week course.

### DCE 131. African Dance. (1.5 h)

Designed to develop basic West African dance technique, build students' musicality and performance skills and create an awareness of African culture. May be taken 2 times for credit.

### DCE 133. Hip Hop Dance. (1.5 h)

Fundamentals of Hip Hop dance technique. May be taken 2 times for credit.

### DCE 150. Design and Production for Dance. (2 h)

Introduction to the fundamentals of lighting, sound editing, dance floor installation, costumes and stage management for dance performance. Credit not allowed for both DCE 150 and THE 150. P-POI.

### DCE 200. Senior Dance Project. (2 h)

An investigation of selected semi-professional problems involving the creative process of choreography, study of notation, research idea, or production.

### DCE 201. Intermediate Tap Dance. (2 h)

A progressive development of technique and vocabulary from DCE 101, with an emphasis on exploring rhythm, dynamics and performance qualities. May be taken four times for credit. P-DCE 101 or POI.

### DCE 202. History of Dance. (3 h)

A survey of the development of dance as a performing art from the Renaissance to the present with an emphasis on scope, style and function. (D)

### DCE 203. 20th-Century Modern Dance History. (3 h)

Exploration of the history of modern dance from Isadora Duncan to contemporary modern dance trends in the U.S. and abroad. (D)

**DCE 205. Improvisation. (2 h)**

An investigation of the art and technique of improvised dancing. The course borrows from visual art, poetry, literature, theatre, and music as catalysts for original movement generation. P-DCE 120 or 221.

**DCE 221. Intermediate Modern Dance Technique. (2 h)**

A progressive development of movement concepts and vocabulary from DCE 120, with an emphasis on exploring both the classical and contemporary techniques of modern dance. May be taken four times for credit. P-DCE 120 or POI.

**DCE 222. Advanced Modern Dance Technique. (2 h)**

A progressive development of the concepts of DCE 221 with an emphasis on qualitative performance, virtuosity and versatility in a variety of technical forms within the modern dance discipline. May be taken four times for credit. P-DCE 221 or POI.

**DCE 223. Dance Composition. (3 h)**

Fundamental study of improvisation, composition, and choreography. P-DCE 221, 226, 229, or POI.

**DCE 224. Advanced Social Dance. (1.5 h)**

Progressive development of technique in rhythm, dance hold, footwork and patterns of ballroom and Latin dance. Emphasis on performance and competitive dance styles. May be taken two times for credit. P-DCE 124 or POI.

**DCE 226. Intermediate Jazz Dance. (2 h)**

This course pursues the mastery of basic jazz technique along with more complex center floor combinations. Emphasis is placed on performance qualities and musicality. May be taken four times for credit. P-DCE 126 or POI.

**DCE 227. Advanced Jazz Dance. (2 h)**

Pursues the mastery of jazz technique along with more complex center floor combinations. Emphasis is placed on performance qualities, musicality, technique, virtuosity, and creativity. May be taken four times for credit. P-DCE 226 or POI.

**DCE 229. Intermediate Classical Ballet. (2 h)**

Pursues the mastery of basic ballet technique along with more complex barre and center combinations, performance qualities, and musicality. May be taken four times for credit. P-DCE 127 or POI.

**DCE 231. Advanced Classical Ballet. (2 h)**

Continues the mastery of basic ballet technique along with more complex barre and center combinations, performance qualities, musicality and pointe work. May be taken four times for credit. P-DCE 229 or POI.

**DCE 233. Advanced Studio Classical Ballet. (2 h)**

Professional level pace of ballet technique. Complex barre and center combinations as well as more advanced pointe work in class. May be taken 4 times for credit. POI.

**DCE 235. Ballet Repertory. (2 h)**

An intermediate and advanced level technique class focusing on the development and performance of classical and contemporary ballet repertoires. May be repeated 4 times for credit. P-DCE 229 or POI.

**DCE 236. Multi-Ethnic Dance. (3 h)**

Exploration of the cultural importance of dance in major ethnic groups in American society. Also listed as AES 236. (CD)

**DCE 241. Advanced Tap Dance. (2 h)**

A progressive development of the concepts of DCE 201 with an emphasis on qualitative performance, virtuosity and versatility in a variety of technical forms within the tap dance discipline. May be taken four times for credit. P-DCE 201 or POI.

**DCE 285. Internship in Dance. (1-3 h)**

Internship, approved by the department, to be carried out under the supervision of a departmental faculty member, designed to meet the proposing student's needs and interests related to their study of dance. Requirements may include an evaluative paper and public presentation. Normally one course in an appropriate sub-filed is taken prior to the internship. P-POI.

**DCE 294. Individual Study. (1-3 h)**

Research and readings in an area of interest to be approved and supervised by a faculty adviser. May be taken for a total of not more than 3 hours. P-POI.

## E. Asian Languages and Culture (EAL)

**EAL 219. Major Works of Japanese Literature I. (3 h)**

A study of major works of Japanese literature, this course examines epic and lyric poetry, novels, drama, travelogues, and satirical pieces chosen both for their central place in the canon and for their insights into Japanese history and culture. (CD, D)

**EAL 220. Major Works of Japanese Literature II. (3 h)**

A study of major works of Japanese literature, this course examines novels, drama, modernity and modernization, and literary movements and genres chosen both for their central place in the canon and for their insights into Japanese history and culture. (CD, D)

**EAL 221. Themes in Chinese Literature I. (3 h)**

Examines selected themes in Chinese fiction, drama, and poetry with an emphasis on the modern and early modern periods. (CD, D)

**EAL 222. Themes in Chinese Literature II. (3 h)**

Examines selected themes in Chinese fiction, drama, and poetry with an emphasis on the early modern and pre-modern periods. (CD, D)

**EAL 223. Traditional Chinese Literature. (3 h)**

Surveys the history of the traditional Chinese fictional narrative across a variety of genres and forms such as the classical anecdote, folktale, vernacular story, dramas, and novel. (CD, D)

**EAL 231. Early 20th-century Chinese Modernism. (3 h)**

An interdisciplinary exploration of Chinese modernist experiments in literature, art, architecture, and graphic design in the first half of the 20th century. (CD)

**EAL 241. Gender in Japanese Literature. (3 h)**

A study of the changing aesthetics and ideologies of gender and sexuality in Japanese literature with a focus on modern fiction and poetry. (CD)

**EAL 251. The Asian-American Experience: Literature and Personal Narratives. (3 h)**

Introduction to the writings and narratives of Asian Americans of South and Southeast Asian descent, including Asian Americans of Chinese, Japanese, Korean, and Indian descent. Explores the process of assimilation including the effects of immigration and cultural conflict on literary forms of expression, as well as the formation of new cultural identities. (CD)

**EAL 252. Chinese Cinemas. (3 h)**

Provides a thorough examination of Chinese cinemas from mainland China, Hong Kong, and Taiwan, paying special attention to films' aesthetic responses to historical catastrophe, political upheaval, and social transformation. Examining film's concerns with the narration of history raises further questions regarding national and cultural identity, popular culture and cinematic form, gender and sexuality, exile and diaspora, and revolutionary aesthetics. (CD)



**EAL 253. Japanese Film: Themes and Methods. (3 h)**

Explores themes, artistic visions, and techniques in a variety of film genres, from historical dramas to contemporary comedies and from realism to fantasy and science fiction. Special focus is given to the films' historical and political context. (CD)

**EAL 270. Contemporary Japanese Culture. (3 h)**

Selected topics in Japanese literature, pop culture, film, animation, and other forms. May be repeated for credit when topic differs. (CD)

**EAL 271. Mass Culture in Modern China. (3 h)**

Inquires into the critical concept of mass and popular culture by looking at newspapers, posters, literature, film, and music, and tracing their sociopolitical, aesthetic, and affective impacts on modern China. (CD)

**EAL 272. Literature and Film from Taiwan, Hong Kong, and Beyond. (3 h)**

Explores the specific cultural, political, historical, and aesthetic contexts that contributed to the development of Chinese-language writings and the film outside the mainland. (CD)

**EAL 273. Kung Fu China: Culture, Narrative, Globalization. (3 h)**

Surveys Chinese martial arts narratives in fiction, film, and visual culture from its ancient origins to the present day. Explores the forces of physical combat alongside issues such as philosophy, politics, gender, technology, and globalization.

**EAL 275. Survey of East Asian Cultures. (3 h)**

Explores the cultural traditions of China, Japan and Korean in their historical, regional and global contexts. (CD)

**EAL 285. Contemporary East Asian Cinema. (3 h)**

Examines the depiction of the cultural landscape of contemporary East Asia and the development of a transnational imaginary in recent works of Chinese-, Japanese-, and Korean-language film. (CD)

**EAL 290. Special Topics. (3 h)**

Selected themes and approaches to East Asian literature, drama, culture, and film. Topics to be chosen by staff prior to the term the course is offered. May be repeated for credit. P-POI.

**EAL 299. Individual Study. (1-3 h)**

P-POI.

**EAL 303. Field Research Preparation. (1 h)**

Development of target language (Chinese or Japanese) field research materials and preparation for field research practicum in China, Japan, or Taiwan. P-POI.

**EAL 304. Field Research Practicum. (2 h)**

Use of target language research materials in field research project in China, Japan, or Taiwan to investigate aspects of culture and belief systems and to apply specific disciplinary frameworks. Not offered at the Wake Forest campus. P-POI.

**EAL 375. Senior Research Seminar. (3 h)**

Capstone research project required of graduating majors.

**EAL 376. Honors Thesis. (3 h)**

Directed research for the honors thesis. P-EAL 375 and POI.

## E. Asian Studies (EAS)

**EAS 311. Special Topics in East Asian Studies. (1-3 h)**

An intensive survey of one or more important issues in East Asian studies not included in the regular course offerings. P-POI.

**EAS 381. Independent Research in East Asian Studies. (1-3 h)**

Supervised independent research project on a topic related to East Asia. May be repeated for credit. P-Permission of both instructor and coordinator of East Asian Studies.

## Economics (ECN)

**ECN 150. Introduction to Economics. (3 h)**

A survey of micro and macroeconomic principles. Introduction to basic concepts, characteristic data and trends, and some analytic techniques. (D)

**ECN 205. Intermediate Microeconomics I. (3 h)**

Development of demand and supply analysis, neoclassical theory of household and firm behavior, and alternative market structures. P-ECN 150 and MST 111 or 112. (D)

**ECN 207. Intermediate Macroeconomics. (3 h)**

Development of macroeconomic concepts of national income, circular flow, income determination, causes of unemployment, IS-LM analysis, inflation, and growth models. Emphasizes contributions of Keynes and the Keynesian tradition. P-ECN 150 and MST 111 or 112. (D)

**ECN 209. Applied Econometrics. (3 h)**

An introduction to regression analysis methods used to estimate and test relationships among economic variables. Selected applications from microeconomics and macroeconomics are studied. Emphasis is on examining economic data, identifying when particular methods are appropriate and interpreting statistical results. P-ECN 150 and STA 111, (or similar course, including ANT 380; BIO 380; BEM 201; HES 262; MST 358, SOC 271, or STA 311). (D, QR)

**ECN 210. Intermediate Mathematical Microeconomics. (3 h)**

Mathematically intensive approach to demand and supply analysis, neoclassical theory of household and firm behavior, and alternative market structures. P - ECN 150 and MST 112. (D)

**ECN 211. Intermediate Mathematical Macroeconomics. (3 h)**

Mathematically intensive approach to macroeconomic analysis of national income, unemployment, inflation, and growth. P - ECN 150 and MST 112. (D)

**ECN 215. Econometric Theory and Methods. (3 h)**

Estimation and inference in relation to quantitative economic models. Methods covered include Ordinary Least Squares, Generalized Least Squares and Maximum Likelihood. P-ECN 150, STA 111 or MST 357/ STA 310, MST 113 and MST 121. (D, QR)

**ECN 240. Economics of Health and Medicine. (3 h)**

Applications of the methods of economic analysis to the study of the health care industry. P-ECN 150 and an applied statistics course such as ANT 380, BIO 380, BEM 201, HES 262, PSY 311, SOC 271 or STA 111, or POI. (D)

**ECN 241. Environmental and Natural Resource Economics. (3 h)**

Develops the economic theory of natural resource markets and explores public policy issues in natural resources and the environment. P-ECN 150 (D)

**ECN 243. Economics of Global Health. (3 h)**

Applications of economic analysis to study health issues in low and middle-income countries. P-ECN 150 and an applied statistics class such as: ANT 380, BIO 380, BEM 201, HES 262, STA 111 (previously MST 109), PSY 311, or SOC 371, or POI. (D)

**ECN 261. American Economic Development. (3 h)**

The application of economic theory to historical problems and issues in the American economy. P-ECN 150. (D)

**ECN 270. Current Economic Issues. (3 h)**

Examines current economic issues using economic theory and empirical evidence. Topics may include recent macroeconomic trends, the distribution of income, minimum wages, immigration, Social Security, war, climate change, trade, regulation and deregulation, antitrust policy, health care, labor unions, tax reform, educational reform, and others. P-ECN 150. (D)

**ECN 271. Selected Areas in Economics. (1-3 h)**

A survey of an important area in economics not included in the regular course offerings. The economics of housing, education or technology are examples. Students should consult the instructor to ascertain topic before enrolling. P-ECN 150. (D)

**ECN 292. College Fed Challenge. (1.5 h)**

Preparation for the annual College Fed Challenge competition. The competition culminates in a presentation of current economic conditions and monetary policy recommendations for the Federal Open Market Committee. The 1.5 hours of academic credit are awarded in the fall semester, but to qualify students must have been active members of the Fed Challenge team in the preceding spring (a commitment of 1 hour per week). Pass/fail only. P - POI.

**ECN 306. Intermediate Microeconomics II. (3 h)**

More advanced theory of maximizing behavior of economic agents with discussion of risk, uncertainty, and economic dynamics. Theory employed in assessment of policy issues. P-ECN 205 or 210. (D)

**ECN 316. Game Theory. (3 h)**

An introduction to mathematical models of social and strategic interactions. P-ECN 205 or 210 and STA 111. (D)

**ECN 317. Market Design. (3 h)**

Theoretical analysis of the design of rules and algorithms to allocate scarce resources. Topics include matching markets, such as those for school choice, entry-level labor markets, and kidney exchanges; auctions with applications to the sale of natural resources, financial assets, and advertising; and online platforms. P-ECN 205 or 210. (D)

**ECN 318. Advanced Topics in Mathematical Economics. (3 h)**

Advanced mathematical techniques such as dynamic programming or lattice theory, and the applications of these techniques to optimization and equilibrium problems in various fields of economics such as growth theory, search theory, and auction theory. P-ECN 210, 211 and MST 112. (D)

**ECN 319. Behavioral Economics. (3 h)**

This course analyzes ways of decision-making that deviate from the standard economic understanding of rational decision-making. The main focus is on behaviors that fall under the umbrella of prospect theory. P-ECN 205 or 210. (D)

**ECN 322. Monetary Theory and Policy. (3 h)**

An investigation of the nature of money, the macroeconomic significance of money, financial markets, and monetary policy. P-ECN 207 or 211. (D)

**ECN 323. Financial Markets. (3 h)**

A study of the functions, structure, and performance of financial markets. P-ECN 205 or 210 and ECN 207 or 211. (D)

**ECN 324. Law and Economics. (3 h)**

An economic analysis of property, contracts, torts, criminal behavior, due process, and law enforcement. P-ECN 205 or 210. (D)

**ECN 326. Theory of Social Choice. (3 h)**

Development of Constitutional Economics in establishing rules for governmental and group decision-making by democratic means. Implications for various voting rules are considered in terms of both positive and normative criteria. P-ECN 205 or 210. (D)

**ECN 333. Economics in Sports. (3 h)**

Study of the design of sporting contests with particular attention paid to league governance decisions, measuring competitor productivity, and strategies used by competitors. P-ECN 205 or 210. (D)

**ECN 335. Economics of Labor Markets. (3 h)**

A theoretical and empirical survey of labor markets. Topics include: the demand and supply of labor, compensating wage differentials, education and training, discrimination, unions, public sector employment, earnings inequality, and unemployment. P-ECN 205 or 210. (D)

**ECN 351. International Trade. (3 h)**

Development of the theory of international trade patterns and prices and the effects of trade restrictions such as tariffs and quotas. P-ECN 205 or 210. (D)

**ECN 352. International Finance. (3 h)**

The study of the open macroeconomy, with a particular focus on the foreign exchange market and the history of the international monetary system. P-ECN 205 or 210 and ECN 207 or 211. (D)

**ECN 358. Economic Growth and Development. (3 h)**

A study of the problems of economic growth, with particular attention to the less developed countries of the world. P-ECN 205 or 210 or POI. (D)

**ECN 362. History of Economic Thought. (3 h)**

Historical survey of the main developments in economic thought from the Biblical period to the 20th century. P-ECN 205 or 210 and ECN 207 or 211. (D)

**ECN 365. Economic Philosophers. (3 h)**

An in-depth study of the doctrines and influence of up to three major figures in economics, such as Smith, Marx, and Keynes. P-ECN 205 or 210 and ECN 207 or 211. (D)

**ECN 372. Selected Areas in Economics. (1-3 h)**

Survey of an important area in economics not included in the regular course offerings. The economics of housing, education or technology are examples. Students should consult the instructor to ascertain topic before enrolling. P-ECN 205 or 210 and ECN 207 or 211. (D)

**ECN 374. Topics in Macroeconomics. (3 h)**

Considers significant issues and debates in macroeconomic theory and policy. Examples might include a New Classical-New Keynesian debate, currency crises, conversion of federal deficit to surplus, competing models of economic growth, alternative monetary and fiscal policy targets. P-ECN 207 or 211. (D)

**ECN 375. Macroeconomic Models. (3 h)**

Development of formal macroeconomic models of both Keynesian and classical types. Involves exploration of comparative statics, dynamic analysis and policy assessment. P-ECN 207. C-MST 113 and 121. (D)

**ECN 376. Quantitative Asset Pricing. (3 h)**

This class studies the theoretical and applied pricing of options. Topics include basic definitions and payoffs of options, the binomial asset pricing model, the Black-Scholes pricing model, and Monte Carlo simulations. Students will also study the ways in which options can provide a hedge against uncertainty. P-ECN 207 and MST 121.

**ECN 390. Individual Study. (1.5, 3 h)**

Directed readings in a specialized area of economics. P-POI.

**ECN 391. Public Finance. (3 h)**

An examination of the economic behavior of government. Includes reasons for and against government action, the appropriate response of governments in cases of market failures, and how private agents will respond to those government actions. P- ECN 209 or 215; and ECN 205 or 210. (D)

**ECN 392. Public Choice. (3 h)**

Traditional tools of economic analysis are employed to explore such topics in political science as political organization, elections, coalition formation, the optimal provision of public goods, and the scope of government. P-ECN 209 or 215; and ECN 205 or 210. (D)

**ECN 393. Economics of Industry. (3 h)**

Analysis of the link between market structure and market performance in United States industries from theoretical and empirical viewpoints. Examines the efficiency of mergers, cartels, and other firm behaviors. Case studies may include automobiles, steel, agriculture, computers, sports, and telecommunications. P-ECN 209 or 215; and ECN 205 or 210. (D)

**ECN 394. Economics of Higher Education. (3 h)**

Applies economic theory and data analysis in an investigation of important current issues in higher education. Issues of prestige, admissions, financial aid, access, student and faculty quality, alumni giving and endowments, and externalities will be addressed. P-ECN 209 or 215; and ECN 205 or 210. (D)

**ECN 395. Prediction Markets. (3 h)**

Prediction markets help make forecasts about upcoming events, and are used by large companies to manage risk. This course provides background on what these markets are, the theoretical reasons why they might work, and studies real world applications such as election forecasting. Students will participate and trade in a live prediction market throughout the semester. P-ECN 205 or 210; and ECN 209 or 215. (D)

**ECN 398. Preparing for Economic Research. (1.5 h)**

Designed to assist students in selecting a research topic and beginning a research project on the selected topic. P-ECN 209 or 215 and POI.

**ECN 399. Research. (1.5 h)**

Completion of a senior research project. Required of candidates for departmental honors. P-ECN 398 and POD.

## Education (EDU)

**EDU 101. Issues and Trends in Education. (3 h)**

Educational issues and trends with a focus on K-12 schools and teachers. Focus will vary by instructor. (D)

**EDU 103A. Preparing for Community Engagement. (1.5 h)**

Prepares students to extend their education beyond the classroom setting. Includes a focus on community-engaged service, mentoring, tutoring, teaching, and learning. Pass/Fail only.

**EDU 103B. Participating in Community Engagement. (1.5 h)**

Allows students to learn more about and participate in community-engaged service as part of a tutoring/mentoring practicum experience. Pass/Fail only. P-POI.

**EDU 111. Special Topics. (1.5 h)**

A survey of topics in education. Focus will vary by instructor.

**EDU 120. Personal Framework for Career Exploration. (1.5 h)**

First course in the College to Career series. Focuses on student self-assessment including personal attributes such as values, interests, personality/temperament, strengths, and beliefs. Begins the process of connecting student attributes with the exploration of options in the world of work. Open to all students, but designed especially for first- and second-year students. Students may not enroll in EDU 120 and EDU 299 in the same semester. Half semester.

**EDU 201. Educational Policy and Practice. (3 h)**

Philosophical, historical and sociological foundations of education, including analysis of contemporary accountability systems. (CD, D)

**EDU 201L. Field Lab I. (2 h)**

Practical experiences in classrooms with focus on school and society. Weekly public school experience and seminar. Pass/Fail only. Service Learning. P or C - EDU 201, or POI.

**EDU 202. Field Experience One. (2 h)**

Practical experiences in classrooms. Weekly public school experience and seminar. Pass/Fail only.

**EDU 203. Methodology and Management Lab. (2 h)**

Elementary education students observe classroom pedagogy and gain teaching experience in a diverse elementary school classroom through weekly observations and WFU seminars. Service Learning. Pass/Fail only. P- POI.

**EDU 204. Integrating Literacy, Technology and the Arts across the Elementary Curriculum. (2 h)**

Practical strategies for integrating literacy, technology and the arts in all areas of the elementary curriculum, including math, science, social studies and health. C-EDU 250.

**EDU 205A. Developing Literacy and Communication Skills in Elementary Schools, K-2. (2 h)**

Implementing research-based strategies for teaching and assessing reading, writing, listening and speaking in grades K-2. P-POI.

**EDU 205B. Developing Literacy and Communication Skills in Elementary Schools, Grades 3-6. (2 h)**

Implementing research-based strategies for teaching and assessing reading, writing, listening and speaking in grades 3-6. P-POI.

**EDU 206. Assessment for Positive Student Outcomes. (2 h)**

An exploration of K – 6 assessment models and strategies to support positive student outcomes. C-EDU 250.

**EDU 220. Options in the World of Work. (1.5 h)**

Second course in the College to Career series. Explores structure of the world of work, job functions and roles. Focus on nature and expectations of the world of work, including exploration of opportunities aligned with interests of students, and correlation between careers and education, career trajectories, graduate school, employment trends and the unique role work plays in creating meaning in the life of the individual. Open to all students, but designed for first and second year students. Students may not enroll in EDU 220 and EDU 299 in the same semester. P or C-EDU 120 or POI.

**EDU 221. Children's Literature. (2 h)**

A survey of the types and uses of literature appropriate for elementary grades, including multicultural literature.

**EDU 222. Integrating the Arts and Movement into the Elementary Curriculum. (2 h)**

A survey of the materials, methods, and techniques of integrating the arts and physical development into the elementary curriculum. P-POI.

**EDU 223. Theatre in Education. (3 h)**

Practical experience for theatre and education students to work together with children in the classroom using theatre to teach core curriculum. Emphasis on methods and techniques as well as the development and implementation of creative lesson plans. Weekly public school teaching experience and seminar. Also listed as THE 270.

**EDU 231. Adolescent Literature. (3 h)**

A survey of literature that centers on the lives of adolescents and young adults. Attention is given to the reading and interpretation of classic and contemporary literature across genres.

**EDU 236. Creativity, Innovation, and Entrepreneurial Thinking in 21st Century Education. (2 h)**

Helps students recognize economic, business, and education changes brought about by increased globalization, the opportunities and challenges associated with globalization, and the need to develop human capacity for success in a global economy that values innovators and entrepreneurs. Designed for any student who is interested in exploring the intersections among the following major course topics: Creativity, Innovation, Entrepreneurial Spirit, Education and Globalization.

**EDU 250. Student Teaching/Seminar: Elementary. (10 h)**

Supervised teaching experience in grades K-6. Full-time. Includes a weekly reflective seminar. Service Learning. Pass/Fail only. P- POI.

**EDU 271. Geography: The Human Environment. (3 h)**

A survey of the geography of human activity as it occurs throughout the world. Emphasis is placed on current problems related to population, resources, regional development, and urbanization. Credit not allowed for both EDU 271 and 274.

**EDU 272. Geography Study Tour. (3 h)**

A guided tour of selected areas to study physical, economic, and cultural environments and their influence on man. Background references for reading are suggested prior to the tour. Offered in the summer. (CD)

**EDU 273. Geography: The Natural Environment. (3 h)**

A systematic study of the major components of physical geography with special emphasis on climate and topography.

**EDU 274. Environmental Geography. (3 h)**

A systematic study of major environmental issues on a global scale with an exploration of implications and possible solutions. Credit not allowed for both EDU 274 and 271.

**EDU 281. Public Life and the Liberal Arts. (3 h)**

Devoted to topics of abiding significance. Fundamental dilemmas and resolutions associated with each topic will be examined through a consideration of their treatment in the liberal arts tradition. Politics and the Arts, and Theory and Practice in Public Life are representative topics.

**EDU 293. Elementary School Curriculum. (2 h)**

Seminar in which student teachers reflect on all aspects of the elementary school curriculum, including meeting the needs of diverse learners, lesson planning, best practices, classroom management and leadership.

**EDU 294. Teaching Elementary Language Arts. (3 h)**

Methods and materials for teaching language arts, including adaptations for diverse and exceptional learners. P-POI.

**EDU 295. Teaching Elementary Social Studies. (2 h)**

Methods and materials for teaching social studies, including adaptations for diverse and exceptional learners. P-POI.

**EDU 296. Elementary Mathematics Methods: Inquiry Teaching and Learning. (3 h)**

Methods and materials for teaching elementary mathematics content, including adaptations for diverse and exceptional learners. P-POI.

**EDU 298. Elementary Science Methods: Inquiry Teaching and Learning. (3 h)**

Methods and materials for teaching elementary science content, including adaptations for diverse and exceptional learners. P-POI.

**EDU 299. Career Planning. (1.5 h)**

Covers all of the three components of the career-planning process: (1) personal assessment of work-related values, interests and skills; (2) exploration of career options; and (3) resume writing, interviewing, and job-search skills. Junior or senior standing only. Students may not receive credit for both EDU 320 and EDU 299. Students may not enroll in EDU 120 and EDU 299 in the same semester. Students may not enroll in EDU 220 and EDU 299 in the same semester. Half semester.

**EDU 300. School Leadership. (1 h)**

Development of leadership skills within the context of school and professional learning communities. P-EDU 250.

**EDU 303. History of Western Education. (3 h)**

Educational theory and practice from ancient times through the modern period, including American education.

**EDU 304. Social Justice Issues in Education. (3 h)**

This course facilitates exploration of issues of social justice and schooling from both theoretical and practical perspectives. It includes a focus on multi-cultural education, global awareness, issues of equity in school funding, urban and rural education, poverty, and marginalized populations. (CD)

**EDU 305. The Sociology of Education. (3 h)**

A study of contemporary educational institutions. This course examines such issues as school desegregation, schooling and social mobility, gender equity, and multiculturalism.

**EDU 307. Instructional Design, Assessment, and Technology. (3 h)**

Introduction to contemporary technologies and their applications for supporting instruction, assessment, and professional practice. P - EDU 311.

**EDU 308. School and Society. (3 h)**

A study of continuity and change in educational institutions, including analysis of teachers, students, curriculum, evaluation, contemporary problems, and reform movements.

**EDU 309L. Introduction to Secondary Education. (2 h)**

Practical experiences in classrooms with focus on secondary classrooms and learners. Weekly public school experience and seminar. Pass/Fail only. Service Learning.

**EDU 310. Race, Class, and Gender in a Color-blind Society. (3 h)**

An examination of issues surrounding race, class, and gender in the United States. Topics include income and wealth, theories of discrimination, public education, gender bias, and patterns of occupational and industrial segregation. Also listed as AES 310.

**EDU 311. Learning and Cognitive Science. (3 h)**

Theories and principles of cognition applied to teaching and learning. (CD, D)

**EDU 312. Teaching Exceptional Children. (3 h)**

Surveys the various types of learning differences in K-6 students. Emphasis is on effective teaching and assessment techniques to support diverse learner needs. Students tutor exceptional learners twice a week and complete a research case study on one student. Service Learning. P-POI.

**EDU 313. Human Growth and Development. (3 h)**

A study of the intellectual, emotional, and physical components of growth from birth to adolescence, with special concern for the educational implications of this process.

**EDU 315. Literacy Interventions. (3 h)**

Strategies for assessing the literacy skills of students who struggle with reading and writing and providing them with appropriate interventions. Students attend seminars focused on diagnosis and remediation, provide remedial instruction for one student, and complete a research case study on that student. Service Learning.

**EDU 320. Strategic Job Search Processes. (1.5 h)**

Third course in the College to Career series. Provides students with the fundamental knowledge, strategies, and skills required to conduct an effective job search including professional written and verbal communication; interviewing techniques; networking and other job search strategies; the branding and marketing of oneself; and evaluating offers and negotiation. Half semester. P-EDU 120 and 220 or POI.

**EDU 330. Fathers and Daughters. (3 h)**

Explores father-daughter relationships in contemporary American society through an interdisciplinary lens of film, literature, music, theater, media, and social science research. P-sophomore standing.

**EDU 337. TESOL Linguistics. (3 h)**

An introduction to the theoretical and practical linguistics resources and skills for teaching English to speakers of other languages (TESOL) within the U.S. or abroad. Also listed as LIN 337. P-LIN/ANT 150 or ENG 304; knowledge of a second language is recommended.

**EDU 351. Adolescent Psychology. (3 h)**

An introduction to theories of adolescent psychology as related to teaching and counseling in various settings. The readings emphasize researchers' suggestions for parenting, teaching, and counseling adolescents between the ages of thirteen and nineteen.

**EDU 353. Language in Education. (3 h)**

This seminar explores the role of language in education contexts. Topics include the study of bilingual and bicultural education, second language education, cross-cultural education, and communication in the classroom. Service-learning component. Also listed as ANT 353. (CD)

**EDU 354. Content Pedagogy. (3 h)**

Methods, materials, and techniques used in teaching particular secondary subjects (English, mathematics, science, second languages, social studies). P-POI.

**EDU 354L. Field Lab III. (2 h)**

Practical experiences in classrooms with focus on pedagogy and content. Weekly public school experience and seminar. Service Learning. Pass/Fail only. C-EDU 354.

**EDU 358. Studies in Contemporary Leadership. (3 h)**

An examination of contemporary leadership theory and its various applications in society. Students engage in practical leadership exercises, read on a variety of leadership topics, and develop their own philosophy of leadership. A twenty-five contact hour internship is required.

**EDU 360. Professional and Life Skills. (1.5 h)**

Fourth course in the College to Career series. Transition to life and work after college. Discusses work ethics and etiquette, work relationships, and ongoing career management. Also covers personal life skills such as budgeting and financial management, stress management, and avocations. Course applies liberal arts education to successful, meaningful life after college, including creation of an e-portfolio demonstrating professional competencies gained through the course of their Wake Forest experience. Senior standing only. Half semester.

**EDU 364L. Field Lab IV. (9 h)**

Supervised teaching internship in grades 9-12 (K-12 for foreign language). Full-time, 15-week field experience. Service Learning. Pass/Fail only. P-POI. C-EDU 365.

**EDU 365. Professional Development Seminars. (3 h)**

Analysis and discussion of problems and issues in secondary school teaching. Examination of research and practice-based strategies. Pass/Fail only. C-EDU 364L.

**EDU 368. Professional Experiences in Education. (3 h)**

This course offers students a placement in an educational setting under the supervision of a professional mentor. During this internship, student examine a critical topic in a local school, a community agency, a non-profit organization, or other educational setting. P-minimum gpa of 2.7 and POI.

**EDU 370. Professional Experience in the Engaged Liberal Arts. (3 h)**

This course offers students an opportunity to develop professional experience while exploring the value of their liberal arts education. Students will develop a professional plan and capture evidence of their own impact using the tools of the engaged liberal arts. During this internship, students will examine a critical topic related to leadership or professional development. P-POI.

**EDU 373. Comparative and International Education. (3 h)**

A study of various historical, political, economic, cultural, and social issues shaping education in selected countries throughout the world. The course aims to expand student understanding of differing educational and pedagogical structures and comparatively investigate educational issues around the globe. (CD)

**EDU 374. Student Teaching Seminar. (1.5 h)**

Analysis and discussion of problems and issues in the teaching of particular secondary subjects (English, mathematics, science, second languages, social studies). Emphasis on the application of effective instructional methods and materials.

**EDU 377. Literacy in the 21st Century. (3 h)**

This course examines the impact of emerging literacy trends on 21st century students in a digital, global world.

**EDU 381. Special Needs Seminar. (1 h)**

Analysis and discussion of practical problems and issues in the teaching of special needs students in the secondary classroom. Topics include reading and writing in the content area, inclusion, and evaluation. Pass/Fail only.

**EDU 382. Teaching Elementary Reading. (3 h)**

Methods and materials for teaching reading, including adaptations for diverse and exceptional learners. P-POI.

**EDU 383. Classroom Management Seminar. (1 h)**

Examination of research and practice based strategies for secondary school classroom management and discipline. Pass/Fail Only.

**EDU 385. Diversity Seminar. (1 h)**

Exploration of multi-cultural issues and relevant Spanish language and cultural teaching practices essential for classroom communication. Pass/Fail only.

**EDU 387. Tutoring Writing. (1.5 h)**

Introduction to composition theory and rhetoric with a special emphasis on one-to-one tutoring techniques. Students will analyze their own writing process and experiences, study modern composition theory, and practice tutoring techniques in keeping with these theories. Strongly recommended for those interested in working in the Writing Center as peer tutors. A student may not receive credit for both EDU 387 and WRI 341.

**EDU 388. Writing Pedagogy. (3 h)**

This course blends theory and practice, providing students from all content areas with a foundational understanding of writing-pedagogy methods and approaches. Topics of study will include writing across the curriculum, writing research, and assessment of writing.

**EDU 390. Methods and Materials for Teaching Foreign Languages (K-6). (3 h)**

A survey of the basic materials, methods, and techniques of teaching foreign languages in the elementary and middle grades. Emphasis is placed on issues and problems involved in planning and implementing effective second language programs in grades K-6.

**EDU 391. Teaching the Gifted. (3 h)**

An investigation of theory and practice pertinent to teachers of the gifted.

**EDU 392. The Psychology of the Gifted Child. (3 h)**

A discussion of giftedness and creativity in children and the relationship of those characteristics to adult superior performance. Topics to be covered include a history of the study of precocity, methods and problems of identification, the relationship of giftedness and creativity, personality characteristics and social-emotional problems of gifted children, and the social implications of studying giftedness.

**EDU 393. Individual Study. (1-3 h)**

A project in an area of study not otherwise available in the Department of Education. Permitted upon departmental approval of petition presented by a qualified student.

**EDU 394. Internship in Education of the Gifted. (3 h)**

An intensive period of observation and instruction of gifted students. Readings and directed reflection upon the classroom experience will be used to develop a richer understanding of such a special school setting.

**EDU 395. Teaching Diverse Learners. (3 h)**

This course addresses diversity in the classroom, particularly the needs of English Learners (EL) and exceptional children (EC). Examines differentiated instruction with appropriate instructional and behavioral strategies to meet the needs of all students.

## Engineering (EGR)

**EGR 111. Introduction to Engineering Thinking and Practice. (4 h)**

Introduction to the study and practice of engineering, systems thinking, design, research, creative and analytical problem solving practices, and engineering for humanity. With laboratory.

**EGR 112. Introduction to Engineering Measurement and Analysis. (4 h)**

Exploration of tools, processes, and quantitative and qualitative analysis for modern engineering practice. With laboratory.

**EGR 113. Integrated Sciences. (4 h)**

An integrated basic science course covering topics in the biological, chemical, and physical sciences. With laboratory.

**EGR 211. Materials and Mechanics. (4 h)**

Fundamentals of materials and mechanics (statics and dynamics) for engineering applications. With laboratory. P-CHM 111/111L, EGR 111, 112, MST 111, PHY 113. P or C-MST 112.

**EGR 212. Transport Phenomena. (4 h)**

An integrated course in the fundamentals of thermodynamics, fluid mechanics, and heat transfer with emphasis on principles of conservation and transport of mass, energy, and momentum. With laboratory. P-CHM 111/111L, EGR 111, 112, MST 111, 112, PHY 113. P or C-MST 113.

**EGR 213. Mechanical Computer Aided Design I. (2 h)**

Introduction to Computer Aided Design (CAD) for mechanical assemblies including design planning additive and subtractive manufacturing techniques. P-EGR 111.

**EGR 214. Embedded Microcontroller Systems. (2 h)**

Examination of the structure of digital electronic systems with specific focus on microcontroller architectures for embedded system applications, as well as interfacing with analog and digital peripherals. With laboratory. P-EGR 111 or EGR 112 and CSC 111.

**EGR 280. Projects with Engineering for Non-Majors. (1-4 h)**

Specialized and focused learning via experiential projects. May be repeated for credit.

**EGR 281. Introductory Projects with Engineering for Majors. (1-4 h)**

Specialized and focused learning via experiential projects. Does not count towards engineering technical elective credit. May be repeated for credit.

**EGR 301. Special Topics in Engineering. (1-4 h)**

Seminar and/or lecture and/or project-based and/or laboratory courses in selected topics. Does not count towards engineering technical elective credit unless a designation of "Technical Elective" is noted. May be repeated if the course title changes.

**EGR 311. Control Systems and Instrumentation. (4 h)**

Fundamentals of circuits and semiconductor electronics as applied to the analysis and design of engineering instrumentation and control systems. With laboratory. P-EGR 211, 212, and MST 113. P or C-MST 205.

**EGR 312. Computational Modeling in Engineering. (4 h)**

Fundamentals of computational problem solving tools (programming, systems modeling, numerical methods) for diverse engineering applications, with consideration of the economic and ethical outcomes of decisions that are made using such techniques. With laboratory. P-EGR 211, 212, MST 113, 205. (STA 111 highly encouraged but not required).

**EGR 313. Capstone Design I. (1 h)**

The first course of the capstone design experience. C-EGR 311, 312.

**EGR 314. Capstone Design II. (4 h)**

The second course of the capstone design experience. P-EGR 313.

**EGR 315. Capstone Design III. (4 h)**

The third course of the capstone design experience. P-EGR 314.

**EGR 316. Mechanical Computer Aided Design II. (2 h)**

Advanced Computer Aided Design (CAD) for mechanical systems and stress/strain analysis with consideration of material properties and their role in manufacturability. P-EGR 211.

**EGR 317. Renewable Energy Systems. (2 h)**

Fundamentals of renewable energy systems, including wind, solar, biomass, and hydroelectric with economics evaluation and understanding technological innovations. With laboratory. P-EGR 212.

**EGR 318. Biomimetic Engineering. (2 h)**

Fundamentals of bioinspired design, functional modeling, and reverse engineering principles towards innovative solutions. P-EGR 211, 212.

**EGR 319. Environmental Engineering. (2 h)**

Fundamentals of environmental systems, including water supply, water quality, water treatment, air pollution, soil remediation, environmental risk assessment, and climate variation. Explore how engineers both leverage and sustain these systems and inform environmental and public health policies. With laboratory. P-EGR 211 and 212.

**EGR 320. Biomedical Engineering Applications. (2 h)**

An overview of biomedical engineering applications such as cardiovascular fluid mechanics, biomechanics, biomaterials, tissue engineering, signal processing and instrumentation, and biomedical ethics. With laboratory. P-EGR 211, 212, and MST 205.

**EGR 321. Chemical Engineering Separations. (2 h)**

Theory and design of chemical separation processes, and related flow diagrams, by applying material and energy balances and chemical equilibria fundamentals. Includes distillation, liquid-liquid extraction, ion exchange, and gas absorption. With laboratory. P-EGR 212, MST 205, CHM 122 and 280.

**EGR 322. Materials Engineering and Characterization. (2 h)**

Relationships between atomic structure, microstructure, and observable properties of metallic, ceramic, and polymeric materials. Measurement and modification of material properties. With laboratory. P-EGR 211, MST 112, CHM 111 and 111L.

**EGR 323. Chemical Reaction Engineering. (2 h)**

Rates of homogeneous, catalytic, and biological reactions; reactor design and analysis, and related flow diagrams. With laboratory. P-EGR 212, MST 205, CHM 122 and 280.

**EGR 324. Hydrologic and Hydraulic Engineering. (2 h)**

Fundamentals of the hydrologic cycle, estimating hydrologic fluxes, watershed-scale modelling, and open channel hydraulics. With laboratory. P-EGR 212.

**EGR 325. Medical Product Design. (2 h)**

Fundamentals of innovative and user-centered product design processes. Use of clinical observations and client interviews to derive new medical device designs and analysis for improving system performance. With laboratory. P-EGR 211 and 212.

**EGR 326. Human Factors Engineering. (2 h)**

A systems approach to understanding human-machine interfaces, psychology of design, ergonomics, human error and system reliability. With laboratory. P-EGR 211 and 212.

**EGR 327. Microengineering. (2 h)**

An overview of microengineering systems and an exploration of how size affects critical scaling law parameters, material properties, fabrication techniques, design and use. With laboratory. P-EGR 211 and 212.

**EGR 328. Inverse Problems in Engineering. (2 h)**

Fundamental approaches and techniques in solving inverse problems using mathematical, numerical, and statistical formulations. Applications include satellite remote sensing of the earth and environment, medical imaging, image and signal processing, and machine learning. With laboratory. P-EGR 211, MST 113 and 205, and STA 111.

**EGR 329. Functional Advanced Materials Characterization. (2 h)**

Relationships between atomic structure, microstructure, and observable properties of functional and advanced materials. measurement and modification of material properties. With laboratory. P-EGR 211, MST 113, CHM 111 and 111L.

**EGR 330. Infrastructure Systems Design. (2 h)**

Explore principles of infrastructure systems through experiential learning and application of concepts to design or redesign a local system with consideration of technical, social, environmental, and economic factors. With laboratory. P-EGR 211 and 212.

**EGR 331. Thermal Fluid Systems. (2 h)**

Applying fundamentals of fluid mechanics, heat transfer, and thermodynamics across diverse engineering applications in the analysis and design of thermal fluid systems. With laboratory. P-EGR 212 and MST 205.

**EGR 332. Structural Engineering I. (2 h)**

An introduction to structural engineering systems and materials such as steel, wood, and concrete. Emphasis on understanding the load path within real structures and how that impacts their design. With laboratory. P-EGR 211.

**EGR 333. Tissue Engineering. (2 h)**

Fundamentals of biomaterials, stem cells, and imaging technologies to analyze novel tissue engineering applications. With laboratory. P-EGR 211, 212, BIO 111 or 114, CHM 111 and 111L or POI.

**EGR 334. Mobile Robotics. (2 h)**

Introduction to mobile robotics, from hardware (energy, locomotion, sensors) and software (signal processing, control, localization, trajectory planning, high-level control). With laboratory. P-EGR 211, 212 and 311.

**EGR 335. Field Programmable Gate Array (FPGA) Design and Implementation. (2 h)**

An introduction to field programmable gate array (FPGA) design and implementation. With laboratory. P-EGR 311.

**EGR 336. Healthcare Engineering. (2 h)**

Beyond biomedical engineering, engineers play a critical role in bettering healthcare systems via big data analytics, next generation technologies, translational science and engineering, precision medicine, and diagnostic AI. With laboratory. P-EGR 312.

**EGR 380. Fundamentals of Engineering Exam Prep. (1 h)**

Review of engineering fundamentals in preparation for Fundamentals of Engineering exam. P or C-EGR 311 and 312.

**EGR 381. Engineering Research. (1-4 h)**

Engineering research project conducted under the guidance of a research mentor. Does not count towards engineering technical elective credit unless a designation of "Technical Elective" is indicated. Upon completion and review of project deliverables, engineering technical elective credit may be granted. May be repeated for credit.

## English (ENG)

**ENG 101. The Discipline of English Studies. (1 h)**

An opportunity to experience and reflect analytically in writing on the diverse cultural and intellectual life at Wake Forest, with an emphasis on literary studies, rhetorical studies, and creative writing events and topics. Pass/fail only. May not be repeated.

**ENG 150. Literature Interprets the World. (3 h)**

Introduction to ways literary artists shape experience, focusing on one topic or selected topics; primarily discussion; writing intensive. P or C-WRI 111 or exemption from WRI 111. (D)

**ENG 165. Studies in British Literature. (3 h)**

Emphasis on important writers representing different periods and genres; primarily discussion; writing intensive. P or C-WRI 111 or exemption from WRI 111. (D)

**ENG 175. Studies in American Literature. (3 h)**

Emphasis on important writers representing different periods and genres; primarily discussion; writing intensive. P or C-WRI 111 or exemption from WRI 111. (D)

**ENG 185. Studies in Global Literature. (3 h)**

Emphasis on important writers representing different periods and genres; primarily discussion; writing intensive. P or C-WRI 111 or exemption from WRI 111. (D)

**ENG 190. Literary Genres. (3 h)**

Emphasis on poetry, fiction, or drama; primarily discussion; writing intensive. P or C-WRI 111 or exemption from WRI 111. (D)

**ENG 265. British Literature before 1800. (3 h)**

Gateway course for the major. Significant works from the British literary tradition before 1800 and introduction to key ideas in literary interpretation. Required for all majors. (D)

**ENG 266. British Literature 1800 to the Present. (3 h)**

Gateway course for the major. Significant works from the British and postcolonial literary traditions since 1800. Either ENG 266 or ENG 275 required for all majors. (D)

**ENG 275. American Literature. (3 h)**

Gateway course for the major. Significant works from the American literary tradition. Either ENG 275 or ENG 266 required for all majors. (D)

**ENG 290. Foundations in Literary Criticism. (3 h)**

Considers figures and schools of thought significant in the history of literary criticism. Required for all majors. (D)

**ENG 298. WFU Press Internship. (1.5-3 h)**

Semester-length practical experience in literary publishing while working at WFU Press, the premier publisher of Irish poetry in North America. Interns learn aspects of editorial review, production, proofreading, marketing, and promotion. Students must submit a formal application through WFU Press before registering ([wfpres.wfu.edu](http://wfpres.wfu.edu)). Pass/Fail. Does not count toward the English Major or Minor. May be repeated once for credit.

**ENG 299. Individual Study. (1.5-3 h)**

Independent study with faculty guidance. Granted upon departmental approval of petition presented by a qualified student. May be repeated once for credit.

**ENG 301. Individual Authors. (3 h)**

Study of selected work from an important American or British author. May be repeated once for credit. (D)

**ENG 302. Ideas in Literature. (3 h)**

Study of a significant literary theme in selected works. May be repeated when the course is taught by a different professor on a different topic. (D)

**ENG 304. History of the English Language. (3 h)**

A survey of the development of English syntax, morphology, and phonology from Old English to the present, with attention to vocabulary growth.

**ENG 305. Old English Language and Literature. (3 h)**

An introduction to the Old English language and a study of the historical and cultural background of Old English literature, including Anglo-Saxon and Viking art, runes, and Scandinavian mythology. Readings from *Beowulf* and selected poems and prose. Fulfills pre-1800 British literature requirement. (D)

**ENG 308. Beowulf. (3 h)**

Intensive study of the poem; emphasis on language, translation skills and critical context. Fulfills pre-1800 British literature requirement. P-ENG 305 or POI. (D)

**ENG 309. Modern English Grammar. (3 h)**

A linguistics approach to grammar study. Includes a critical exploration of issues such as grammatical change and variation, the origins and effects of grammar prescriptions/proscriptions, the place of grammar instruction in education, and the politics of language authority.

**ENG 310. The Medieval World. (3 h)**

Examines theological, philosophical, and cultural assumptions of the Middle Ages through the reading of primary texts. Topics may include Christian providential history, drama, devotional literature, the Franciscan controversy, domestic life, and Arthurian romance. Fulfills pre-1800 British literature requirement. (CD - Depending on topic covered.) (D)

**ENG 311. The Legend of Arthur. (3 h)**

The origin and development of the Arthurian legend in France and England, with emphasis on the works of Chretien de Troyes and Sir Thomas Malory. Fulfills pre-1800 British literature requirement. (D)

**ENG 312. Medieval Poetry. (3 h)**

The origin and development of poetic genres and lyric forms of medieval vernacular poetry. Fulfills pre-1800 British literature requirement. (D)

**ENG 313. Roots of Song. (3 h)**

Interdisciplinary investigation of poetry and song in the Middle Ages and early Renaissance. Study of the evolution of poetic and musical genres and styles, both sacred and secular. Students must complete a project or projects on the technical or theoretical aspects of early song. Fulfills pre-1800 British literature requirement. Also listed as MUS 283. (D)

**ENG 315. Chaucer. (3 h)**

Emphasis on *The Canterbury Tales* and *Troilus and Criseyde*, with some attention to minor poems. Consideration of literary, social, religious, and philosophical background. Fulfills pre-1800 British literature requirement. (D)

**ENG 320. British Drama to 1642. (3 h)**

British drama from its beginning to 1642, exclusive of Shakespeare. Representative cycle plays, moralities, Elizabethan and Jacobean tragedies, comedies, and tragicomedies. Fulfills pre-1800 British literature requirement. Also listed as THE 320. (D)

**ENG 323. Shakespeare. (3 h)**

Thirteen representative plays illustrating Shakespeare's development as a poet and dramatist. Fulfills pre-1800 British literature requirement. Also listed as THE 323. (D)

**ENG 325. 16th-Century British Literature. (3 h)**

Concentration on the poetry of Spenser, Sidney, Shakespeare, Wyatt, and Drayton, with particular attention to sonnets and *The Faerie Queene*. Fulfills pre-1800 British literature requirement. (D)

**ENG 326. Studies in English Renaissance Literature. (3 h)**

Selected topics in Renaissance literature. Consideration of texts and their cultural background. Fulfills pre-1800 British literature requirement. May be repeated once for credit pending approval of instructor. (D)

**ENG 327. Milton. (3 h)**

The poetry and selected prose of John Milton, with emphasis on *Paradise Lost*. Fulfills pre-1800 British literature requirement. (D)

**ENG 328. 17th-Century British Literature. (3 h)**

Poetry of Donne, Herbert, Vaughan, Marvel, Crashaw; prose of Bacon, Burton, Browne, Walton. Consideration of religious, political, and scientific backgrounds.



**ENG 330. Restoration and 18th-Century British Literature. (3 h)**

Representative poetry and prose, exclusive of the novel, 1660-1800, drawn from Dryden, Behn, Swift, Pope, Johnson, and Wollstonecraft. Consideration of cultural backgrounds and significant literary trends. Fulfills pre-1800 British literature requirement. (D)

**ENG 333. Jane Austen. (3 h)**

An intensive study of the works of British novelist Jane Austen, and her cultural contexts.

**ENG 335. 18th-Century British Fiction. (3 h)**

Primarily the fiction of Defoe, Richardson, Fielding, Smollett, Sterne, and Austen. Fulfills pre-1800 British literature requirement. (D)

**ENG 336. Restoration and 18th-Century British Drama. (3 h)**

British drama from 1660 to 1780, including representative plays by Dryden, Etherege, Wycherley, Congreve, Goldsmith, and Sheridan. Fulfills pre-1800 British literature requirement. Also listed as THE 336. (D)

**ENG 337. Studies in 18th-Century British Literature. (3 h)**

Selected topics in 18th-century literature. Consideration of texts and their cultural background. Fulfills pre-1800 British literature requirement. (D)

**ENG 338. Studies in Gender and Literature. (3 h)**

Thematic and/or theoretical approaches to the study of gender in literature. (D)

**ENG 339. Studies in Sexuality and Literature. (3 h)**

Thematic and/or theoretical approaches to the study of sexuality in literature. (D)

**ENG 340. Studies in Women and Literature. (3 h)**

Women writers in society. (D)

**ENG 341. Literature and the Environment. (3 h)**

Studies of the relationship between environmental experience and literary representation. (D)

**ENG 344. Studies in Poetry. (3 h)**

Selected topics in poetry. (D)

**ENG 345. Studies in Fiction. (3 h)**

Selected topics in fiction. (D)

**ENG 346. Studies in Theatre. (3 h)**

Selected topics in drama. (D)

**ENG 347. Modern English and Continental Drama and the London Stage. (3 h)**

Explores the works of major playwrights of England and Europe from 1875 to the present. May also include contemporary production of classic plays. Emphasizes plays currently being presented in London theatres. Also listed as THE 266. Offered in London. (D)

**ENG 350. British Romantic Poets. (3 h)**

A review of the beginnings of Romanticism in British literature, followed by study of Wordsworth, Coleridge, Byron, Keats, and Shelley; collateral reading in the prose of the period. (D)

**ENG 351. Studies in Romanticism. (3 h)**

Selected topics in European and/or American Romanticism with a focus on comparative, interdisciplinary, and theoretical approaches to literature. (D)

**ENG 353. 19th-Century British Fiction. (3 h)**

Representative major works by Dickens, Eliot, Thackeray, Hardy, the Brontes, and others. (D)

**ENG 354. Victorian Poetry. (3 h)**

A study of Tennyson, Browning, Hopkins, and Arnold or another Victorian poet. (D)

**ENG 356. Literature of the Caribbean. (3 h)**

Readings include significant works by authors from the Caribbean and authors writing about the Caribbean. Critical, historical, and cultural approaches are emphasized. All texts are in English. (CD, D)

**ENG 357. Studies in Chicano/a Literature. (3 h)**

Writings by Americans of Mexican descent in relation to politics and history. Readings in literature, literary criticism, and socio-cultural analysis. Also listed as AES 357. (CD, D)

**ENG 358. Postcolonial Literature. (3 h)**

A survey of representative examples of postcolonial literature from geographically diverse writers, emphasizing issues of politics, nationalism, gender and class. (CD, D)

**ENG 359. Studies in Postcolonial Literature. (3 h)**

Examination of themes and issues in post-colonial literature, such as: globalization, postcolonialism and hybridity, feminism, nationalism, ethnic and religious conflict, the impact of the Cold War, and race and class. (CD, D)

**ENG 360. Studies in Victorian Literature. (3 h)**

Selected topics, such as development of genres, major authors and texts, and cultural influences. Readings in poetry, fiction, autobiography, and other prose. (D)

**ENG 361. Literature and Science. (3 h)**

Literature of and about science. Topics will vary and may include literature and medicine, the two culture debate, poetry and science, nature in literature, the body in literature. (D)

**ENG 362. Irish Literature in the Twentieth Century. (3 h)**

A study of modern Irish literature from the writers of the Irish Literary Renaissance to contemporary writers. Course consists of overviews of the period as well as specific considerations of genre and of individual writers. (D)

**ENG 363. Studies in Modernism. (3 h)**

Selected issues in Modernism. Interdisciplinary, comparative, and theoretical approaches to works and authors. (D)

**ENG 364. Advanced Studies in Literary Criticism. (3 h)**

Consideration of certain figures and schools of thought significant in the history of literary criticism. Builds on ENG 290 Foundations in Literary Criticism. (D)

**ENG 365. 20th-Century British Fiction. (3 h)**

A study of Conrad, Lawrence, Joyce, Forster, Woolf, and later British writers, with attention to their social and intellectual backgrounds. (D)

**ENG 366. James Joyce. (3 h)**

The major works by James Joyce, with an emphasis on *Ulysses*. (D)

**ENG 367. 20th-Century English Poetry. (3 h)**

A study of 20th-century poets of the English language, exclusive of the United States poets, are read in relation to the literary and social history of the period. (D)

**ENG 368. Studies in Irish Literature. (3 h)**

The development of Irish literature from the 18th century through the early 20th century in historical perspective, with attention to issues of linguistic and national identity. (D)

**ENG 369. Modern Drama. (3 h)**

Main currents in modern drama from 19th-century realism and naturalism through symbolism and expressionism. After an introduction to European precursors, focus is on representative plays by Wilde, Shaw, Synge, Yeats, O'Neill, Eliot, Hellman, Wilder, Williams, Hansberry, and Miller. (D)

**ENG 370. American Literature to 1820. (3 h)**

Origins and development of American literature and thought in representative writings of the Colonial, Revolutionary, and Federal periods. (D)

**ENG 371. American Ethnic Literature. (3 h)**

Introduction to the field of American ethnic literature, with special emphasis on post WWII formations of ethnic culture: Asian American, Native American, African American, Latino, and Jewish American. The course will highlight issues, themes, and stylistic innovations particular to each ethnic group and will examine currents in the still-developing American culture. (CD, D)

**ENG 372. American Romanticism. (3 h)**

Writers of the mid-19th century, including Emerson, Thoreau, Hawthorne, and Melville. (D)

**ENG 373. Literature and Film. (3 h)**

Selected topics in the relationship between literature and film, such as film adaptations of literary works, the study of narrative, and the development of literary and cinematic genres. (D)

**ENG 374. American Fiction before 1865. (3 h)**

Novels and short fiction by such writers as Brown, Cooper, Irving, Poe, Hawthorne, Melville, Stowe, and Davis. (D)

**ENG 375. American Drama. (3 h)**

A historical overview of drama in America, covering such playwrights as Boucicault, O'Neill, Hellman, Wilder, Williams, Inge, Miller, Hansberry, Albee, Shepard, Norman, Mamet, and Wilson. Also listed as THE 375. (D)

**ENG 376. American Poetry before 1900. (3 h)**

Readings and critical analysis of American poetry from its beginnings to the end of the 19th century, including Bradstreet, Emerson, Longfellow, Melville, and Poe, with particular emphasis on Whitman and Dickinson. (D)

**ENG 377. American Jewish Literature. (3 h)**

Survey of writings on Jewish topics or experiences by American Jewish writers. Explores cultural and generational conflicts, responses to social change, the impact of the Shoah (Holocaust) on American Jews, and the challenges of language and form posed by Jewish and non-Jewish artistic traditions. (CD, D)

**ENG 378. Literature of the American South. (3 h)**

Study of Southern literature from its beginnings to the present, with emphasis upon such major writers as Tate, Warren, Faulkner, O'Connor, Welty, and Styron. (D)

**ENG 379. Literary Forms of the American Personal Narrative. (3 h)**

Reading and critical analysis of autobiographical texts in which the ideas, style, and point of view of the writer are examined to demonstrate how these works contribute to an understanding of pluralism in American culture. Representative authors may include Hurston, Wright, Kingston, Angelou, Wideman, Sarton, Chuang Hua, Crews, and Dillard. (D)

**ENG 380. American Fiction 1865 to 1915. (3 h)**

Study of such writers as Twain, James, Howells, Crane, Dreiser, Wharton, and Cather. (D)

**ENG 381. Studies in African-American Literature. (3 h)**

Reading and critical analysis of selected fiction, poetry, drama, and other writings by American authors of African descent. (CD, D)

**ENG 382. Modern American Fiction, 1915 to 1965. (3 h)**

Includes such writers as Stein, Lewis, Anderson, Hemingway, Fitzgerald, Faulkner, Dos Passos, Wolfe, Wright, Ellison, Agee, Flannery O'Connor, and Pynchon. (D)

**ENG 385. 20th-Century American Poetry. (3 h)**

Readings of modern American poetry in relation to the literary and social history of the period. (D)

**ENG 386. Directed Reading. (1.5-3 h)**

A tutorial in an area of study not otherwise provided by the department; granted upon departmental approval of petition presented by a qualified student. May be repeated once for credit.

**ENG 387. African-American Fiction. (3 h)**

Selected topics in the development of fiction by American writers of African descent. Also listed as AES 387. (CD, D)

**ENG 388. Honors in English. (3 h)**

A conference course centering upon a special reading requirement and a thesis requirement. For senior students wishing to graduate with "Honors in English."

**ENG 389. African-American Poetry. (3 h)**

Readings of works by American poets of African descent in theoretical, critical, and historical contexts. Also listed as AES 389. (CD, D)

**ENG 390. The Structure of English. (3 h)**

An introduction to the principles and techniques of modern linguistics applied to contemporary American English.

**ENG 391. Studies in Postmodernism. (3 h)**

Interdisciplinary, comparative, and theoretical approaches to works and authors.

**ENG 393. Multicultural American Drama. (3 h)**

Examines the dramatic works of playwrights from various racial and ethnic communities such as Asian American, Native American, African American, and Latino. The course includes consideration of issues, themes, style, and form. Also listed as THE 376. (CD, D)

**ENG 394. Contemporary Drama. (3 h)**

Considers experiments in form and substance in plays from Waiting for Godot to the present. Readings will cover such playwrights as Beckett, Osborne, Pinter, Stoppard, Churchill, Wertebaker, Albee, Shepard, Mamet, Wilson, Soyinka, and Fugard. Also listed as THE 372. (D)

**ENG 395. Contemporary American Literature. (3 h)**

A study of post-World War II American poetry and fiction by such writers as Bellow, Gass, Barth, Pynchon, Lowell, Ashbery, Ammons, Bishop, and Rich. (D)

**ENG 396. Contemporary British Fiction. (3 h)**

Study of the British novel and short story, including works by Rushdie, Amis, Winterson and Ishiguro. (D)

**ENG 397. Internship in the Major. (1.5 h)**

Internship that involves both hands-on experience and academic study. Students will partner with a literature faculty member to integrate work in the community and engagement with his or her academic plan of study. P-POI.

**ENG 398. English Studies and the Professions. (1.5 h)**

A practicum course focused on career design and career planning, specific to career options in humanities fields. The course will broaden awareness of career opportunities available to English majors and minors. Pass-Fail Only. Cannot be repeated.

# Entrepreneurship (ENT)

## **ENT 105. The Entrepreneurial Experience: From Mindset to Entrepreneurial Identity. (1 h)**

An exploration and analysis of the entrepreneurial lifecycle from ideation, concept development, launching and building a company, and eventually exiting, with specific focus on developing an entrepreneurial mindset and forming an entrepreneurial identity. The course features guest speakers who have founded companies in various industries.

## **ENT 200. Foundations of Entrepreneurship: Identifying and Cultivating Valuable Ideas. (3 h)**

Examines and cultivates the notion of creativity from the perspective of value creation, inquiry, opportunity recognition, and idea generation. Topics examined through writing and design assignments, group projects, and discussions include awareness, empathy, risk, ethics, self-agency, and social engagement with the express objective of identifying and creating valuable ideas. Provides an introduction to the practice of entrepreneurship and design thinking, along with the development of an entrepreneurial mindset.

## **ENT 201. Evidence-Based Entrepreneurship: Developing Validated Concepts. (3 h)**

Examines how individuals use entrepreneurial skills to craft innovative responses to societal and market needs. Using customer discovery and other evidence-based entrepreneurial methods, students participate in the progression of ideas into validated concepts. P - ENT 200.

## **ENT 203. Writing for a Social Purpose. (3 h)**

Combines writing, service learning, and entrepreneurship approaches in communication by partnering students with a local nonprofit organization to provide a range of writing solutions in print and online. Also listed as JOU 325. P- JOU 270 or POI.

## **ENT 204. Arts and Activism. (3 h)**

Study of artists who bridge the world of arts and social justice activism by means of dance, music, film, visual arts, and theatre, as well as how they challenge the status quo, our perceptions, and societal values. No expertise in any of the arts is necessary. Also listed as MUS 233.

## **ENT 205. Scaling the Entrepreneurial Venture: From Concept to Harvest. (3 h)**

Explores the stage in the entrepreneurial lifecycle where validated concepts transition to established ventures. The course is designed to provide exposure to topics critical to success, such as how to scale the venture past early adopters to meet the needs of more mainstream customers. It covers key functional domains including entrepreneurial marketing, finance, fundraising, leadership, and strategy. P - ENT 201.

## **ENT 250. Communication in Entrepreneurial Settings. (3 h)**

Using a fictitious start-up company, students will discover and apply business communication strategies to build new businesses. Also listed as COM 250.

## **ENT 301. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

## **ENT 302. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

## **ENT 303. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

## **ENT 304. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

## **ENT 305. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

## **ENT 306. Topics in Entrepreneurship. (1.5, 3 h)**

Seminar and/or lecture courses in select topics related to entrepreneurship. May be repeated if course title differs.

## **ENT 310. Arts Entrepreneurship. (3 h)**

Introduces entrepreneurial processes and practices in the visual arts, theater, dance, music, and creative writing. Seminar format includes encounters with arts entrepreneurs, investigation of case studies, and research in new and evolving models for creative application of entrepreneurial practices in the arts.

## **ENT 312. Management in the Visual Arts. (3 h)**

Provides art students with the skills, experiences, and frameworks for understanding the role that the visual arts play within the national and international economy. Also listed as ART 297. P-Junior or senior standing and POI.

## **ENT 313. Whole Person Creativity. (3 h)**

Interactive studio/seminar that introduces students to the concepts and practices of creativity, innovation, design, and sustainability. Through whole-person engagement, architectural design processes, and place-making studies, students explore the impact of human behaviors on all areas of life and society along a continuum of local to global.

## **ENT 315. Nonprofit Arts and Education Entrepreneurship: Promotion of Latin-American and Latino Visual Culture. (3 h)**

Explores entrepreneurship in promoting Latin-American and U.S. Latino cultures through educational and artistic events and fundraisers on campuses and in the community. Students gain hands-on experience by assisting in the production of Wake Forest exhibitions, events promoting Latin-American and U.S. Latino heritage and culture, related community fundraisers, and nonprofit organizations.

## **ENT 320. Social Entrepreneurship. (3 h)**

Interdisciplinary seminar that introduces the concepts of entrepreneurship with a focus on entrepreneurial activities that further the public good through the integration of core concepts of social and cultural values and ecological sustainability.

## **ENT 321. Social Entrepreneurship and the Humanities: Innovation, Public Engagement, and Social Change. (3 h)**

Introduction to the role played by humanities in social entrepreneurship, exploring the premise that norms can be developed for the application of the humanities, and that the knowledge derived in this process can empower and be a tool in community-based engagement and social change. Course includes a social entrepreneurial project in the local community. Also listed as HMN 295.

## **ENT 322. Religion, Poverty, and Social Entrepreneurship. (3 h)**

Interdisciplinary study of major themes in religion, poverty reduction, and social entrepreneurship. Focus and community emphasis may vary with instructor. Also listed as REL 344.

## **ENT 323. Social Entrepreneurship Summer Program. (6 h)**

This trans-disciplinary, 4-week program explores the role of social entrepreneurship in society today and challenges students, through a rigorous and integrated curriculum to master the entrepreneurial process involved in furthering the public good through community-based engagement and social change. P-POI.

**ENT 325. Free Trade, Fair Trade: Independent Entrepreneurs in the Global Market. (3 h)**

Field-based seminar compares the barriers to market participation experienced by independent entrepreneurs cross-culturally. Free trade policies will be contrasted with fair trade practices, to determine why so many independent producers have trouble succeeding in a globalizing world. Also listed as ANT 301. (CD)

**ENT 326. Telling Women's Lives: Writing about Entrepreneurs, Activists, and Community Leaders. (3 h)**

This course will use an interdisciplinary approach to address fundamental issues of female leadership by examining recent developments in long- and short-form narratives about women (biography, essays, profiles) and employing journalistic tools to interview and write profiles of women entrepreneurs, activists, and community leaders. Also listed as WGS 326.

**ENT 330. Entrepreneurship for Scientists. (3 h)**

Introduces students to the routes by which scientific discoveries and new technologies find their way to the market place. Covers ideation, determining market potential, business planning, intellectual property, entrepreneurship ethics, venture capital, and venture incubation.

**ENT 335. Renewable Energy Entrepreneurship: Science, Policy, and Economics. (4 h)**

This team-taught course provides overviews of the most important renewable energy sources. Explores the science, policy and economic issues related to renewable energy and investigates the potential for new markets, new products, and new entrepreneurial opportunities in the marketplace. P - Junior standing and Div V requirements, or POI.

**ENT 340. Communication Technology and Entrepreneurship. (3 h)**

Explores how an e-commerce business plan can be developed and the specific ways of marketing e-commerce ventures including the options provided by new tools such as social networking applications. Also listed as COM 321.

**ENT 350. Internships in Entrepreneurial Studies. (1.5, 3 h)**

Offers the opportunity to apply knowledge in an entrepreneurial for-profit or not-for-profit environment. Requirements include a course journal and a comprehensive report that showcase the student's specific achievements and analyze the quality of his or her experience. P - POI.

**ENT 351. Green Technologies: Science and Entrepreneurship. (2, 3 h)**

Introduces the science and entrepreneurship opportunities of select green technologies. Students learn in the fundamental science associated with energy use and renewable energy and selected green technologies. Students also learn the basics of starting a new business and develop a business plan to bring a "green product" to the market. P-CHM 341 or ENT 201 or POI.

**ENT 357. Bioinspiration and Biomimetics. (3 h)**

Explores the ways in which biological mechanisms can inspire new technologies, products, and businesses. The course combines basic biological and entrepreneurial principles. Also listed as BIO 357.

**ENT 371. Economics of Entrepreneurship. (3 h)**

An examination of the economic constraints and opportunities facing entrepreneurs and their impacts on the economy. The course will blend economic theories with an empirical investigation of the lives and actions of entrepreneurs in the past and the present. Also listed as ECN 266.

**ENT 380. America at Work. (3 h)**

Examines the American entrepreneurial spirit within the broader context of industrial, social, and economic change from the colonial period to the present and explores the social and cultural meanings attached to work and workers, owner and innovators, businesses and technologies, management and leadership. Also listed as HST 380. (CD)

**ENT 384. Design-Thinking and High Performance Teams. (3 h)**

In this experiential class, we study the evolution of high-performance teams in design-thinking environments. At its core, design thinking is an approach to innovative problem solving that balances art, science, and business perspectives in realistic and highly impactful ways. In this course we develop the ability to participate in and lead high-performance teams within a design-thinking environment. The course involves an action-learning project that applies the perspectives of anthropology, history, political science, communication, and psychology, among others, in solving a real-world problem. Also listed as BEM 384.

**ENT 391. Independent Study in Entrepreneurship. (1.5, 3 h)**

An independent project involving entrepreneurship or social enterprise carried out under the supervision of the faculty member. P - POI.

**ENT 392. Independent Study in Entrepreneurship. (1.5, 3 h)**

An independent project involving entrepreneurship or social enterprise carried out under the supervision of a faculty member. P - POI.

**ENT 394A. Student Entrepreneurship in Action. (1.5, 3 h)**

This course is built around the real-time challenges and learning that occur as the students in the class launch, run, build, and sell or transition their venture. Promotes intense rigorous intellectual exchange in a seminar setting in which all will not only participate in critical thinking and analysis, but also in problem solving and leadership. Course may be repeated for credit. P - POI.

**ENT 394B. Student Entrepreneurship in Action. (1.5, 3 h)**

This course is built around the real-time challenges and learning that occur as the students in the class launch, run, build, and sell or transition their venture. Promotes intense rigorous intellectual exchange in a seminar setting in which all will not only participate in critical thinking and analysis, but also in problem solving and leadership. Course may be repeated for credit. P - POI.

**ENT 399. Startup Lab. (3 h)**

Startup Lab is designed to help students take high potential ideas and, after learning best practices on evidence-based entrepreneurship, apply lean startup methodology to their own startup. Students will learn key aspects of building an early stage company such as how to make crucial early stage sales, how to build brand loyalty with early stage customers, key aspects of accounting, finance, and human resources that apply to startups, and how to lead a team. This is a practicum and much of the learning is application-oriented and focuses directly on the startup or the startup team. P-POI.

## Environmental Program (ENV)

**ENV 201. Environmental Issues. (3 h)**

Topics include environmental literature, environmental history, human populations, resource management, pollution, global change, environmental activism and environmental ethics.

**ENV 202. Environmental Solutions. (3 h)**

Learn how to improve our environment by identifying and exploring innovative environmental solutions. Counts towards Environmental Minor requirements.

**ENV 203. Leadership for Sustainability. (3 h)**

Sustainability Ambassadors are student peer educators for sustainability. The mission of the Sustainability Ambassadors program is to support the development of sustainable behaviors among the student population at Wake Forest University. Through outreach activities, campaign development, event planning, sustainability assessments, and presentations, Sustainability Ambassadors are able to reach Wake students in a variety of settings. They help fulfill the Office's mission of empowering others to assume leadership roles in sustainability.

**ENV 220. Introduction to Earth Science. (3 h)**

Oceans, weather, climate, earthquakes, volcanoes, soil, and space all play important roles in our dynamic planet. Students will explore the lithosphere, hydrosphere, atmosphere, and biosphere, and gain a deeper understanding of how the Earth operates as a whole. Also listed as BIO 220. P-requires BIO 150, 150L, 160, and 160L if taken as BIO 220.

**ENV 301. Topics in Environmental Studies. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**ENV 302. Topics in Environmental Studies. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**ENV 303. Topics in Environmental Studies. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**ENV 304. Topics in Environmental Studies. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**ENV 305. Topics in Environmental Studies. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**ENV 306. Topics in Environmental Studies. (1-4 h)**

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

**ENV 391. Individual Study. (1.5 h)**

A field study, internship, project or research investigation carried out under the supervision of a member of the environmental program faculty. Pass/fail or for a grade at the discretion of the instructor. Pass/fail is not an option if used as an elective for the environmental science or environmental studies minor.

**ENV 392. Individual Study. (1.5 h)****ENV 394. Environmental Internship. (1-4 h)**

Supervised internships with governmental agencies, nonprofit organizations and businesses.

**ENV 395. Sustainability Lab/Clinic. (4 h)**

Focuses on practical solutions to sustainability problems, and includes the use of makerspace, the fabrication lab, and the visualization lab.

## Film Studies (FLM)

**FLM 101. Internship in Film and Media Studies I. (1.5-3 h)**

Individual internships in film studies, to be approved, supervised, and evaluated by an appropriate member of the film studies faculty. The nature and extent of the internship will determine whether both sections can be taken simultaneously. Pass/fail only. P-POI.

**FLM 102. Internship in Film and Media Studies II. (1.5-3 h)**

Individual internships in film studies, to be approved, supervised, and evaluated by an appropriate member of the film studies faculty. The nature and extent of the internship will determine whether both sections can be taken simultaneously. Pass/fail only. P-POI.

**FLM 201. Film & Media Studies Practicum. (1.5-3 h)**

Practicum in film and media studies, to be approved, supervised, and evaluated by an appropriate member of the film studies faculty. May be repeated for up to six hours. Pass/fail only.

**FLM 286. Individual Study in Film and Media Studies. (1.5-3 h)**

Directed study in an area of interest to be approved and supervised by a faculty adviser. P-POI.

**FLM 390. Special Topics in Film and Media Studies. (1.5-3 h)**

Selected topics in film studies. May be repeated for credit if topic varies.

## Finance (FIN)

**FIN 203. Applied Quantitative Analysis for Finance. (3 h)**

Provides the basic mathematical and statistical tools needed for the study of applied finance. Topics: multiple regression, analysis of residuals and F-tests; analysis of time-series data; risk, preference and utility theory; stochastic processes; and applied optimization. P-BEM 201 and FIN 231 with a C or better; C-FIN 232; or POI.

**FIN 231. Principles of Finance. (3 h)**

Survey course examining the fundamentals of financial decision-making and including topics such as the time value of money, security valuation (corporate debt and equity pricing), risk and return, financial statement analysis, capital budgeting, and the cost of capital. Financial decision-making is developed within the context of domestic and international institutions and markets. P-ACC 111, P or C-ECN 150.

**FIN 232. Intermediate Finance. (3 h)**

Required for all finance majors and is intended as preparation for upper level electives. It provides an examination of financial decision-making under uncertainty stressing practical applications of technology. Topics include yield curves and interest rate risk; the uses and risks of derivative securities; capital structure and the impact of leverage; statistical estimation of the cost of capital for the firm and its projects; financial statement forecasting (pro forma); and discounted cash flow valuation of the firm. The course incorporates electronic spreadsheet applications (Excel) in problem solving, statistics and financial modeling. P-BEM 201 and FIN 231 with C or better; C-FIN 203; or POI.

**FIN 233. Equity Investments. (3 h)**

The Equity Investments course exposes students to equity research, portfolio formation and analysis, equity security valuation, and stock selection for portfolio construction. The course uses accounting, fundamental analysis and a discounted cash flow framework to value equity securities. P-FIN 203 and FIN 232 with a C or better. May be taken as a co-requisite with FIN 203 and/or FIN 232 with POI.

**FIN 234. International Finance. (3 h)**

The course examines the impact of international financial economics on markets and the management of both domestic and multinational firms. Emphasis is placed upon institutional and environmental factors influencing trade, foreign exchange, and capital acquisition and allocation. P-FIN 203 and FIN 232 with a C or better; or POI.

**FIN 235. Selected Topics in Finance. (3 h)**

Identifies the most current topics and practices in the dynamic global financial industry and covers them in detail; may also explore a more narrow finance topic in depth. Focuses on the application of leading-edge concepts and ideas in the financial services and/or banking industries. A seminar approach requires active student participation in the identification, elaboration and discussion of course materials. Oral and written skills are emphasized. P - FIN 203 and FIN 232 with a C or better. May be taken as co-requisite with FIN 203 and/or FIN 232 with POI.

**FIN 236. Private Equity. (3 h)**

Covers the full life cycle of private equity. The course covers buyout, venture capital and growth capital investing, both from an investing and managerial point of view. While being relevant to students interested in becoming private equity professionals, the course is also applicable to those who might interact with private equity firms from the view of being an investment banker, a funding source, a participant in acquisitions or divestitures (such as a seller or management partner) or as an institutional investor in private equity funds. P - FIN 203 and FIN 232 with a C or better; or POI.

**FIN 237. Financial Markets and Institutions. (3 h)**

The course provides students with an understanding of the structure and functioning of US and international financial markets. Topics covered in the class: banking theory, the roles of traditional and non-traditional financial intermediaries, the impact of securitization, international financial competition, financial system stability and financial regulation. P-FIN 203 and FIN 232 with a C or better; or POI.

**FIN 238. Financial Modeling. (3 h)**

This course is intended to strengthen your knowledge in Finance and provide you with practical skills for implementing financial models in a spreadsheet. While the specific tool used in this class is Microsoft Excel, the techniques can be generalized and applied to various implementation tools. The subject matter is a blend of Corporate Finance and Investments with a heavier weighting placed on Corporate Finance.

**FIN 331. Corporate Finance. (3 h)**

The course explores the practical application of corporate financial theory. The strategic financial decisions of firms are analyzed with regard to capital budgeting, capital structure, dividend policy, seasoned equity offerings, rights issues, the application of option theory to corporate finance strategy, and real options. P-FIN 203 and 232 with a C or better; or POI.

**FIN 332. Banking and Investment Banking. (3 h)**

Examines corporate restructuring and how commercial and investment banks facilitate the transactions. Investigates the impact of strategic financial alterations on the performance of the firms assets. Examines IPO's, mergers and acquisitions, divestitures, spin-offs, and capital acquisition. Focuses on the application of financial modeling and the use of discounted cash flow valuation to analyze managerial decisions under uncertainty. P-FIN 203 and 232 with a C or better; or POI.

**FIN 333. Advanced Finance. (3 h)**

Focuses on maximizing the firm's market value in a dynamic environment by exploring the interplay between (1) its operating and strategic decisions, (2) the evaluation of the firm and its strategies by the investment community, and (3) the functioning of capital markets and economies within which the firm operates. The course integrates results from relevant research with the effective practice of financial management by business professionals. P - FIN 203 and FIN 232 with a C or better, or POI.

**FIN 335. Financial Derivatives. (3 h)**

Explores the pricing and uses of derivatives; the role of market participants; how market structures and practices facilitate risk transfer; and the uses of derivatives for hedging. Covers futures/forwards, options, and swaps, the three most important types of financial derivatives. P-FIN 203 and 232 with a C or better; or POI.

**FIN 336. Fixed Income and Financial Engineering. (3 h)**

Provides an introduction to interest rate risk management, the nature of fixed income markets, the structure and underlying economic rationale for various structured products including collateralized debt obligations, and the role of financial engineering in fixed income markets and risk management. P-FIN 203 and 232 with a C or better; or POI.

**FIN 338. Real Estate Finance. (3 h)**

Focuses on concepts and techniques used to value and finance income-producing property investments. Provides students a critical perspective for making financial decisions about real estate. The nature of real estate risk, at both the level of the individual project and the investment portfolio. Class sessions will rely on case discussions as we consider how economic characteristics of the property and the local market, motives of different actors, and institutional arrangements interact to shape decision-making in real estate. P-FIN 203 and 232 with a C or better; or POI.

**FIN 381. Individualized Reading and Research. (1-3 h)**

Directed study in specialized areas of finance. P-POI.

## First Year Experience (FYE)

**FYE 101. The College Transition. (1 h)**

Exploration of issues related to academic success, living in community, and wellbeing in the transition to college. Emphasizes principles, understanding, and skills to promote a successful college transition. Pass/fail only. First-year students only.

## First Year Seminar (FYS)

**FYS 100. First Year Seminar. (3 h)**

First year seminars are a basic requirement for graduation and are designed to enhance each student's academic and social integration into Wake Forest. They foster intellectual interchange, both written and oral, and encourage examination of opposing viewpoints through reading, writing, and debate of issues in a small group setting. Seminars are offered in most academic departments and programs.

## French (FRH)

**FRH 111. Elementary French. (3 h)**

The first course in a two-semester sequence designed to help students to understand and speak French and also learn to read and write French at the elementary level.

**FRH 112. Elementary French. (3 h)**

The second course in a two-semester sequence designed to help students to understand and speak French and also learn to read and write French at the elementary level. P-FRH 111.

**FRH 113. Intensive Elementary French. (4 h)**

Review of the material from 111-112 in one semester, intended for students whose preparation for 153 is inadequate. Credit not given for both 113 and 111 or 112. Offered in the fall semester only. By placement or faculty recommendation.

**FRH 153. Intermediate French. (4 h)**

Intermediate-level course covering the structure of the language, developing students' reading, writing, and conversation skills and preparing them for oral and written discussion of readings in French 212 and 213. Note that 153 and other 153 marked courses (153F, 154) are mutually exclusive. P-FRH 111 and FRH 112, or 113, or placement.

**FRH 154. Accelerated Intermediate French. (3 h)**

Intensive, intermediate-level course intended for students with a stronger background than required of 153 students. It offers the opportunity to develop further their reading, writing, and conversation skills and prepare them for oral and written discussion of readings in French 212 and 213. Offered in the fall semester. P-POI or placement.

**FRH 196. French Across the Curriculum. (1.5 h)**

Coursework in French done as an adjunct to specially designated courses throughout the college curriculum. May be taken for grade or Pass/Fail. P-POI.

**FRH 198. Internship in French Language. (1.5, 3 h)**

Under faculty direction, a student undertakes a language project in conjunction with an off-campus service commitment or internship. Includes, but is not limited to, vocabulary building, keeping a journal, and reading professional material. P-FRH 319 or POI. Pass/Fail only.

**FRH 199. Service Learning in French Language. (1.5 h)**

Experiential learning that links classroom instruction and community service done as an adjunct to specially-designated courses throughout the French curriculum. Pass/Fail only. May be repeated for credit. P-POI.

**FRH 212. Exploring the French and Francophone World. (3 h)**

Explores significant cultural expressions from the French and Francophone world. Emphasizes both the development of competence in speaking, reading and writing French, and understanding how particular French-speaking societies have defined themselves. Credit allowed for only one: FRH 212, FRH 213, or FRH 214. P-FRH 153 or equivalent.

**FRH 213. Encounters: French and Francophone Literature and Culture. (3 h)**

Encounters with significant literary expressions from the French-speaking world. Emphasizes the advancement of competence in speaking, reading and writing, and the analysis of literature in its cultural contexts. Credit allowed for only one: FRH 212, FRH 213, or FRH 214. P-FRH 153 or equivalent.

**FRH 214. Encounters: French and Francophone Literature and Culture (Honors). (3 h)**

Encounters with significant literary expressions from the French-speaking world. Emphasizes the advancement of competence in speaking, reading and writing, and the analysis of literature in its cultural contexts. Coursework in the honors sections focuses more intently on written and oral expression and on reading strategies. Intended for students with a strong background in French. Credit allowed for only one: FRH 212, FRH 213, or FRH 214. P-Placement or POI.

**FRH 216. Studies in French and Francophone Literature and Culture. (3 h)**

Study of the ways in which various aspects of French and Francophone cultures appear in different literary genres over certain periods of time. Emphasis is placed on reading and discussion of selected representative texts. May be repeated once for credit when topics vary. Required for the major and minor. P-FRH 212 or 213 or 214; or POI. (CD)

**FRH 315. Introduction to French and Francophone Studies. (3 h)**

Orientation in French and francophone cultures through their historical development and their various forms. Includes the study of literary, historical, and social texts, and possibly films, art, and music. Required for the major and minor. Offered only once each academic year. (A student taking 350 as part of the Dijon program would receive credit for this course. Please see the description of the Dijon program for details.) P-FRH 200-level course or equivalent. (CD)

**FRH 319. Composition and Review of Grammar. (4 h)**

Systematic review of the fundamental principles of comparative grammar, with practical training in writing idiomatic French. Required for the major and minor. P-FRH 200-level course or equivalent.

**FRH 320. French Conversation. (3 h)**

A language course based on cultural materials. Designed to perfect aural skills and oral proficiency by systematically increasing vocabulary and reinforcing command of specific grammatical points. Short written works are assigned. Exclusively for second-language learners. P-FRH 200-level course or equivalent.

**FRH 321. Introduction to Translation. (3 h)**

Introduction to translation strategies through theory and practice. Emphasis is placed on translation of a broad variety of texts, including different literary and journalistic modes. Attention is given to accuracy in vocabulary, structures, forms, and to cultural concerns. P-FRH 319 or POI.

**FRH 322. French Phonetics. (3 h)**

Study of the principles of standard French pronunciation, with emphasis on their practical application as well as on their theoretical basis. P-POI.

**FRH 323. Advanced Grammar and Stylistics. (3 h)**

Review and application of grammatical structures for the refinement of writing techniques. Emphasis is on the use of French in a variety of discourse types. Attention is given to accuracy and fluency of usage in the written language. P-FRH 319 or POI.

**FRH 329. French for Business Communication. (3 h)**

Introduces the use of French in everyday professional interactions. Emphasizes oral and written practices, reading, and French business culture, as well as the job search and cross-cultural awareness. Exclusively for second-language learners. P - FRH 200 level course or equivalent.

**FRH 330. French for Management. (3 h)**

Explores oral and written French communication and develops intercultural skills in areas such as human resources, entrepreneurship, and marketing through case studies and current events. P-FRH 319, 329, or POI.

**FRH 341. Rise of French. (3 h)**

The development of French from an early Romance dialect to a world language. Study of ongoing changes in the language's sounds, grammar, and vocabulary system within its historical and cultural context. P-FRH 319 or POI.

**FRH 342. Structure of French. (3 h)**

Analysis of linguistic features of French including syntax, phonology, and morphology. P-FRH 319 or POI.

**FRH 343. Modern French. (3 h)**

Study of the features of contemporary French including colloquial French contrasting grammar, vocabulary, and pronunciation with standard forms. P-FRH 319 or POI.

**FRH 345. Language and Society. (3 h)**

Introduction to sociolinguistic issues relating to the French language and its role in societies around the world. P-FRH 319 or POI.

**FRH 350. Studies in French Language and Culture. (6 h)**

Familiarization with the language and culture of France and its people. Study of French civilization, practice in writing, participation in French family life, lectures on selected topics, and excursions to points of historical and cultural significance. Satisfies FRH 315 requirement for major or minor. Offered in Dijon. Grade mode only.

**FRH 351. Advanced Oral and Written French. (4 h)**

Study of grammar, composition, pronunciation, and phonetics, with extensive practice in oral and written French. Offered in Dijon. Grade mode only.

**FRH 352. Contemporary France. (3 h)**

Study of present-day France, including aspects of geography and consideration of social, political, and educational factors in French life today. Offered in Dijon.

**FRH 353. Studies in French Art. (2 h)**

Lectures and field trips in French painting, sculpture, and architecture, concentrating on the 19th and 20th centuries. Offered in Dijon.

**FRH 354. Independent Study. (1.5-3 h)**

One of several fields; scholar's journal and research paper. Offered in Dijon. Supervision by the resident director of the semester in France. Work may be supplemented by lectures on the subject given at the Université de Bourgogne Faculté des Lettres et Sciences Humaines.

**FRH 360. Cinema and Society. (3 h)**

Study of French and Francophone cultures through cinema. Readings and films may include film as artifact, film theory, and film history. P-FRH 216, 315 or POI. (CD)

**FRH 361. Special Topics in French and Francophone Film Studies. (3 h)**

In-depth study of particular aspects of French and/or francophone cinema. Topics may include film adaptations of literary works, cinematographic expressions of social or political issues, selected filmmakers, theories, genres, historical periods, or cinematographic trends. May be repeated for credit when topics vary. P-FRH 360 or POI.

**FRH 363. Trends in French and Francophone Poetry. (3 h)**

Study of the development of the poetic genre with analysis and interpretation of works from each period. P-FRH 216, 315 or POI.

**FRH 364. French and Francophone Prose Fiction. (3 h)**

A broad survey of prose fiction in French, with critical study of representative works from a variety of periods. P-FRH 216, 315 or POI.

**FRH 365. French and Francophone Drama. (3 h)**

Study of the chief trends in dramatic art in French, with reading and discussion of representative plays from selected periods. P-FRH 216, 315 or POI.

**FRH 370. Seminar in French and Francophone Studies. (3 h)**

In-depth study of particular aspects of selected literary and cultural works from different genres and/or periods. A capstone course for third- and fourth-year students only. Required for major. May be repeated for credit when topics vary. P-FRH 216, 315 or POI. (CD)

**FRH 374. Topics in French and Francophone Culture. (3 h)**

Study of selected topics in French and/or francophone culture. Works will be drawn from different fields (sociology, politics, art, history, music, cinema) and may include journalistic texts, films, historical and other cultural documents. May be repeated for credit when topics vary. P-FRH 216, 315 or POI.

**FRH 375. Special Topics in French and Francophone Literature. (3 h)**

Selected themes and approaches to French and francophone literature transcending boundaries of time and genre. May be repeated for credit when topics vary. P-FRH 216, 315 or POI.

**FRH 381. French Independent Study. (1.5-3 h)**

P-POD.

**FRH 390. Directed Reading. (1.5 h)**

Required for departmental honors in French Studies.

**FRH 391. Directed Research. (3 h)**

Extensive reading and/or research to meet individual needs. Required for departmental honors in French Studies. P-POD.

## German (GER)

**GER 001. German for Reading Knowledge. (1.5 h)**

For graduate students and motivated undergraduate students who will need a reading knowledge of German in their academic fields (Divinity School, Religious Studies, Philosophy, Music, etc.). Introductory training in understanding/translating a variety of texts from German into English, including grammar and vocabulary overview. No prior knowledge of German necessary. Level: Beginner to Intermediate. Taught online. Pass/Fail.

**GER 002. German for Reading Knowledge. (1.5 h)**

For graduate students and motivated undergraduate students who will need a reading knowledge of German in their academic fields (Divinity School, Religious Studies, Philosophy, Music, etc.). Continuation of grammar and vocabulary overview from GER 001, culminating in a personalized translation project. Includes German proficiency test samples. For students who have completed GER 001, or who have received instructor permission. Level: Intermediate to Advanced. Taught online. Pass/Fail.

**GER 100. German Pre-Orientation Tour. (1 h)****GER 110. Intensive Elementary German. (4 h)**

One-semester course covering the material of GER 111 and 112. For students whose preparation for GER 153 is inadequate or who have demonstrated proficiency in another language. Not open to students who have had GER 111 or 112. Offered only at the Flow House in Vienna.

**GER 111. Elementary German. (4 h)**

Introduction to German language and culture. First of a two-semester sequence.

**GER 112. Elementary German. (4 h)**

Introduction to German language and culture. Second of a two-semester sequence.

**GER 113. Intensive Elementary German. (4 h)**

A one-semester course covering the material of German 111 and 112. For students whose preparation for German 153 is inadequate or who have demonstrated proficiency in another language. Not open to students who have had German 111 or 112.

**GER 150. Intermediate German. (4 h)**

Review of principles of grammar; reading of selected prose and poetry. Offered only at the Flow House in Vienna. P - GER 110, GER 112, or GER 113.

**GER 153. Intermediate German. (4 h)**

Review of basic grammar; reading of selected prose and poetry. P-GER 110, GER 112 or GER 113.

**GER 208. Introduction to German Short Fiction. (3 h)**

Lecture and discussion in German. Offered only in Jena, Germany. P-GER 150 or 153 or equivalent.

**GER 210. Encounters with the German-Speaking World. (3 h)**

Formative events and figures of German-speaking cultures and the literary and political texts that define their identity. P-GER 150 or 153.



**GER 212. Introduction to German Short Fiction. (3 h)**

Introduction to short works of German literature. P-GER 150 or 153 or equivalent.

**GER 214. Masterpieces of Austrian Literature. (3 h)**

Study of masterpieces of Austrian literature of the 19th, 20th, and 21st centuries. Lecture and discussion in German. Offered only at the Flow House in Vienna P-GER 150 or 153 or equivalent.

**GER 317. Composition and Grammar Review. (3 h)**

Review of the fundamentals of German grammar with intensive practice in translation and composition. Required for majors and minors. Offered in fall. P-200-level course or POI.

**GER 318. German Conversation. (3 h)**

Vocabulary for everyday situations, fluency and pronunciation, discussion of various topics from easy to advanced, listening exercises, free speaking, oral presentations. P-200-level course or POI.

**GER 319. Advanced Writing and Stylistics. (3 h)**

Emphasis on improving and expanding writing skills and vocabulary acquisition. Introduction to writing in different genres and contexts, such as blogs, reports, summaries, opinion pieces, short stories, memoirs, emails, newspaper articles, and fairy tales. Includes a creative writing component, relevant grammar topics, and readings in Young Adult Literature. P-200-level course or POI.

**GER 320. German Culture and Civilization I. (3 h)**

Survey of German culture and civilization from prehistoric times to 1848. Conducted in German. P-200-level course or POI. (CD)

**GER 321. German Culture and Civilization II. (3 h)**

Survey of German culture and civilization from 1848 to the present, with emphasis on contemporary Germany. Conducted in German. P - 200-level course or POI. (CD)

**GER 322. Internship in German Language. (0.5-3 h)**

May be repeated for a total of 6 hours, only 3 of which may count towards the major or minor. Pass/Fail only. P- GER 317 or POI.

**GER 329. Business German I. (3 h)**

Emphasis on social market economy, writing resumes, the European Union, job ads and job interviews, current topics in German business, oral proficiency, business correspondence, grammar review, business etiquette, banking, and financing. P-GER 317 or POI.

**GER 330. Business German II. (3 h)**

Prepares students for the internationally acknowledged exam Wirtschaftsdeutsch als Fremdsprache, which is offered at the end of the semester. Other topics include: writing a business plan, the structure of German companies, current topics in German business, oral proficiency, business correspondence, and business theory. P-GER 329 or POI.

**GER 350. German-Jewish Literature and Culture. (3 h)**

An examination of the German literary representation of Jews and Judaism in the last two centuries. Through text by both Jewish and non-Jewish authors, the course explores the nationalistic, economic, and racial motivations behind anti-Semitism, as well as Jewish self-awareness within the German-speaking culture. Topics to be covered include the Enlightenment, 19th-century nationalism, and Holocaust. The course culminates with works by recent German-Jewish authors. P-200-level course or POI.

**GER 370. Individual Study. (1-3 h)**

Readings on selected topics in literature or current events not ordinarily covered in other courses. May be repeated once for major/minor elective credit. P - 200-level course and POI.

**GER 380. German Literature before 1700. (3 h)**

Survey of German literature of the Middle Ages, Reformation, and Baroque eras; emphasizes the chivalric period, Martin Luther, and the Baroque period. Offered in fall. P-200-level course or POI.

**GER 381. German Literature from 1700-1815. (3 h)**

Selected works from the Enlightenment, the Storm and Stress period, the poetry and major dramas of Goethe and Schiller, and German Romanticism. Offered in fall. P - 200-level course or POI.

**GER 383. German Literature from 1815-1900. (3 h)**

Study of selected works from the Realist period and subsequent Naturalist movement, with attention to their historical and social contexts. Offered in fall. P-200-level or POI.

**GER 385. German Literature from 1900 to Present. (3 h)**

Intensive study of representative works of major German, Austrian, and Swiss authors of the 20th and 21st centuries. Offered in fall. P - 200-level course or POI. (CD)

**GER 387. Honors in German. (2.5 h)**

Conference course in German literature or culture. A major research paper is required. Designed for candidates for departmental honors.

**GER 388. Honors in German. (2.5 h)**

Conference course in German literature or culture. A major research paper is required. Designed for candidates for departmental honors.

**GER 399. Seminar in the Major. (3 h)**

Intensive examination of a selected genre or special topic to be determined by the instructor. Intensive practice in critical discourse, including discussion and an oral presentation in German. Introduction to literary scholarship and research methodology leading to a major research paper. Required for all majors. May be repeated. Offered in spring. P-GER 350, 380, 381, 383, 385 or POI.

## German Studies (GES)

**GES 100. German Pre-Orientation Tour. (1 h)****GES 331. Weimar Germany. (3 h)**

Art, literature, music, and film of Weimar Germany, 1919-1933, in historical context. Also listed at HST 318.

**GES 335. German Film. (3 h)**

Survey of German cinema from the silent era to the present.

**GES 336. Special Topics in German Film. (3 h)**

Examination of a topic, movement, or director (to be determined by instructor).

**GES 337. Myth and National Identity Formation. (3 h)**

Explores the philosophical, social, religious, and political background of Germany and Austria in the context of the Nibelung cycle. Students read selected works of Tacitus, medical epics, medieval poetry, Herder, Wagner, Nietzsche, and Adorno. (D)

**GES 340. German Masterworks in Translation. (3 h)**

Examines selected works of German, Austrian, and Swiss fiction in English translation by such writers as Goethe, Schiller, Kafka, Mann, and Schnitzler. Literary periods, genres, and authors vary according to instructor. Can also be offered online in summer. (D)

**GES 341. Austrian Literature in Translation. (3 h)**

Examines the literature of Austria from the decline of the Habsburg Empire to the present day. Intended for current and/or prospective German major or minors. (D)

**GES 345. History of the German Language. (3 h)**

Survey of the development of the German language from prehistoric times to modern day German. Topics include: From Indo-European to Germanic, phonetical and lexical changes of the German language, Old High German, Middle-High German, Early New High German, and Modern Standard German. No prior knowledge of linguistics necessary.

**GES 350. Fin de Siècle Vienna. (3 h)**

Survey of major developments in Viennese art, music, literature, and society from roughly 1889 to 1918. Important figures to be discussed are Mahler, Schoenberg, Klimt, Schiele, Schnitzler, Musil, Freud, and Herzl. Offered only at the Flow House in Vienna. (D)

**GES 351. German-Jewish Literature and Culture. (3 h)**

Explores the history of relations, cross-cultural influences, and prejudices between German Jews and Christians in literature from the Middle Ages to the present. Texts and discussions will also draw attention to pertinent contemporary issues, such as various forms of intolerance and the complexity and malleability of religious identity. (D)

**GES 390. German Women Writers. (3 h)**

Examination of selected works by women authors. Literary periods, genres, and authors vary according to instructor. (D)

**GES 391. Germanic Myths and Monsters. (3 h)**

Examines myths and monsters in medieval and modern discourse of the German-speaking countries. Students read selected works such as the Edda, medieval epics and romances, as well as nineteenth- and twentieth-century authors. P - 200 level course or equivalent. (D)

**GES 393. Luther. (3 h)**

Examines the social political, and religious background of Germany on the eve of the Reformation, traces the formative (sometimes legendary) events of Luther's life, and explores several of his most important tracts, his translation of the Bible, and his more notorious confrontations and opponents. (D)

**GES 394. German Myths, Legends and Fairy Tales. (3 h)**

Study of German myths, legends and fairy tales since the Middle Ages and their role in the formation of German national identity. (D)

**GES 395. Special Topics in German Studies. (3 h)**

Individual topics vary by instructor. (D)

**GES 396. The German Novel. (3 h)**

Introduction to novels by German, Swiss, and Austrian authors. (D)

**GES 397. Intellectual History of Weimar. (3 h)**

Examines the philosophical, political and literary works that gave rise to the mythical status of Weimar as the intellectual heart of Germany. Students read selected works by Luther, Goethe, Schiller, Fichte and the Jena Romantics. (D)

## Greek (GRK)

**GRK 111. Elementary Greek. (3 h)**

Introduction to the language; provides a foundation for reading the ancient authors. P-POD.

**GRK 112. Elementary Greek. (3 h)**

Introduction to the language; provides a foundation for reading the ancient authors. P-POD.

**GRK 113. Intensive Elementary Greek. (3 h)**

Accelerated introduction to the language; provides a foundation for reading the ancient authors. Not open to students who have received credit GRK 111-112. C-GRK 113L.

**GRK 113L. Intensive Elementary Greek Lab. (2 h)**

Concentration on sight-reading and composition in Greek. Must be taken in the same semester as GRK 113.

**GRK 153. Intermediate Greek. (3 h)**

Review of grammar; readings in classical authors. P-Greek 112 or equivalent.

**GRK 154. Intensive Intermediate Greek. (3 h)**

Review of grammar in the context of reading classical authors. P - 113 or equivalent. C-GRK 154L.

**GRK 154L. Intensive Intermediate Greek Lab. (2 h)**

Concentration on sight-reading and composition in Greek. Must be taken in the same semester as GRK 154.

**GRK 201. Intermediate Greek. (3 h)**

Review of grammar; readings in classical authors. P-GRK 153.

**GRK 211. Introduction to Attic Prose. (3 h)**

Selections from the dialogues of Plato or other Attic prose. P-GRK 153, 154 or equivalent.

**GRK 312. Greek Poetry. (3 h)**

Selections from the Iliad and the Odyssey or from didactic and lyric poetry. P - Greek 211 or equivalent.

**GRK 321. Greek Readings. (1.5, 3 h)**

Designed to meet individual needs and interests. Course may be repeated for a total of six credit hours. P-POI.

**GRK 325. Advanced Grammar and Composition. (3 h)**

Intensive work in morphology and syntax, with practice in composition and stylistic analysis of selected readings. P—GRK 211 or equivalent.

**GRK 331. Greek Biblical Texts. (3 h)**

Selections from Greek Biblical texts. P-GRK 211 or equivalent.

**GRK 341. Greek Tragedy. (3 h)**

Close study of a selected tragedy or tragedies. P—GRK 211 or equivalent.

**GRK 342. Greek Comedy. (3 h)**

Close study of a selected comedy or comedies of Aristophanes or Menander. P—GRK 211 or equivalent.

**GRK 391. Honors in Greek. (1.5 h)**

Directed research for honors paper. P-POD.

**GRK 392. Honors in Greek. (1.5 h)**

Directed research for honors paper. P-POD.

## Health and Exercise Science (HES)

**HES 100. Lifestyles and Health. (1 h)**

A lecture course that deals with the effect of lifestyle behaviors on various health outcomes, including cardiovascular disease, cancer, and sexually-transmitted diseases.

**HES 101. Exercise for Health. (1 h)**

A laboratory course on physical fitness that covers weight control, cardiovascular endurance, muscular strength, and flexibility.

**HES 112. Sports Proficiency. (1 h)****HES 120. Fitness Activities. (1 h)**

This course is designed to promote health and well-being through a variety of exercise and skill based activities. The course focuses on providing the knowledge and skills needed for lifetime participation in these activities. Pass/fail only. May be repeated for up to 4 hours of credit if activities differ.

**HES 232. Emergency Medical Training. (3 h)**

Lectures and practical experiences in preparation for responding to medical emergencies, including: patient assessment; airway management; cardiopulmonary resuscitation; O<sub>2</sub> therapy; management of shock; trauma and environmental emergencies; and head/spine/musculoskeletal injuries. Clinical hours and Saturday classes are required. EMT certification is offered, attendance is required for State and National Certification testing. Pass/fail only.

**HES 262. Statistics in the Health Sciences. (3 h)**

Basic statistics with an emphasis on application to research in the health sciences. Students are introduced to graphics and statistical software for statistical analysis. (QR)

**HES 310. Clinical Externship. (1, 2 h)**

Application of theory and methods of solving problems in a specialized area according to the student's immediate career goals. Open only to majors. Pass/Fail only. P-POI.

**HES 311. Clinical Internship. (1, 2 h)**

A semester experience in the campus rehabilitation or clinical research programs. Work includes active participation with individuals and groups with clinical conditions, such as heart disease, pulmonary disease, osteoarthritis, and obesity. Focus is on multiple intervention strategies, in conjunction with participation in physiologic monitoring of patients during therapeutic sessions. Open only to majors. Pass/Fail only. P-POI.

**HES 312. Exercise and Health Psychology. (3 h)**

A survey of the psychological antecedents of exercise and selected topics in health psychology with particular attention to wellness, stress, the biobehavioral basis of coronary heart disease, and the psychodynamics of rehabilitative medicine. P-HES 262 or POI.

**HES 320. Mindfulness Meditation in Behavioral Medicine. (2 h)**

Study of contemplative science and in the realm of behavioral medicine. Content includes recent evidence from neuroscience and outcome research on both mindfulness-based stress reduction and mindfulness-based cognitive therapy. Taught in a seminar format with laboratory experience. Pass/Fail only. P-POI.

**HES 350. Human Physiology. (3 h)**

A lecture course which presents the basic principles and concepts of the function of selected systems of the human body, with emphasis on the muscular, cardiovascular, pulmonary, and nervous systems.

**HES 350L. Human Physiology Lab. (1 h)**

A laboratory course that coincides with HES 350 human physiology lecture course. P or C-HES 350.

**HES 351. Nutrition in Health and Disease. (3 h)**

Lecture course which presents the principles of healthy nutrition including an understanding of nutrients and their metabolism as well as the impact of nutrition on weight management and chronic diseases. P-HES 350 or POI.

**HES 352. Human Gross Anatomy. (4 h)**

Lecture/laboratory course in which the structure and function of the musculoskeletal, neuromuscular, pulmonary, and cardiovascular systems are studied using dissected human cadavers.

**HES 353. Physiology of Exercise. (3 h)**

A lecture course which presents the concepts and applications of the physiological response of the human body to physical activity. Acute and chronic responses of the muscular and cardiorespiratory systems to exercise are examined. P-HES 350 or POI.

**HES 354. Assessment Techniques in Health and Exercise Science. (3 h)**

A lecture/laboratory course to develop clinical skills and knowledge in the assessment of health in areas of exercise physiology, nutrition/metabolism, biomechanics/neuromuscular function, and health psychology. The laboratory will emphasize use of instrumentation and analysis/interpretation of data collected on human subjects. P-HES 262, HES 350 and 352; or POI. (QR)

**HES 355. Exercise Programming. (1.5 h)**

Lecture/laboratory course which presents the scientific principles of safe and effective exercise prescription for fitness programs. P-HES 350 or POI.

**HES 360. Epidemiology. (3 h)**

Introduction to basic epidemiologic principles and methods used to assess disease occurrence and association between risk factors and health outcomes in human populations. Emphasis is placed on modifiable exposures (e.g. diet and physical activity) and chronic disease outcomes. P - An applied statistical methods course, such as ANT 380, BIO 380, BEM 202, HES 262, PSY 311, SOC 271, or STA 111; or POI. (QR)

**HES 362. Experimental Design for Clinical and Translational Health Science Research. (3 h)**

Examination of scientific methods as applied to Clinical and Translational Health Science Research. Emphasis is placed on understanding the strengths and weaknesses for a broad range of study designs that can be found in the health sciences. Special emphasis is placed on randomized controlled trials, bioethics, the interpretation of data within the context of internal and external validity, as well as skills in reviewing the scientific literature. P - An applied statistics course such as ANT 380, BIO 380, BEM 201, HES 262, PSY 311, SOC 271, or STA 111; or POI.

**HES 370. Biomechanics of Human Movement. (3 h)**

Study of the mechanical principles which influence human movement, sport technique, and equipment design. P-HES 352 or POI.

**HES 372. Anatomy Dissection Laboratory. (2 h)**

A laboratory course that involves human cadaver dissection of the musculoskeletal, neuromuscular, pulmonary, and cardiovascular systems. Open only to majors. P-POI.

**HES 375. Advanced Physiology of Exercise. (3 h)**

A lecture course which provides an in-depth examination of the physiological mechanisms responsible for both the acute and chronic changes which occur with exercise. Included are metabolic and cellular changes in response to exercise, as well as the alterations of the major organ systems from acute and chronic exercise training. P - HES 353 or POI.

**HES 376. Interventions in Behavioral Medicine. (3 h)**

Seminar course providing an overview of the development, implementation, and evaluation of interventions within the context of behavioral medicine. Attention is given to behavior change theories that have served as the framework for physical activity and weight loss interventions. Hands-on experience is included with current interventions through peer counseling and case study analysis.

**HES 382. Individual Study. (1-2 h)**

Independent study directed by a faculty adviser. The student must consult the adviser before registering for this course. Open only to majors. May be repeated for up to 4 hours of credit. P-POI.

**HES 384. Special Topics in Health and Exercise Science. (1.5-3 h)**

Intensive investigation of a current scientific research topic in health or exercise science with focus on a specific topic.

**HES 386. Honors Research. (2 h)**

Directed study and research in preparation for a major paper on a subject of mutual interest to the student and faculty honors adviser. Taken only by candidates for departmental honors. P-POI, approval of departmental honors committee, and prior completion of a 2-hour Individual Study.

**HES 388. Field Internship in Health Sciences. (3 h)**

An extensive hands-on experience in a discipline of the health sciences related to the student's career goals. This internship occurs outside the Wake Forest University community. Open only to majors. Pass/Fail only. P-POI.

## Health Policy & Administration (HPA)

**HPA 150. Introduction to Public Health. (3 h)**

Survey of the basic structure of the health care system in the United States. Includes discussion of current issues of public policy toward health, organization of health care delivery, and health system reform. Serves as the introduction to the interdisciplinary minor in health policy and administration. Offered fall semester only.

**HPA 250. Internship in Health Policy and Administration. (3 h)**

A semester experience in a health care policy or health care administration organization. Students will work in conjunction with a director who is a researcher on a public health science research project or with an administrator in health care delivery. Students gain relevant practical experience that builds on prior coursework and provides insight into public health policy issues. Open only to senior health policy and administration students. P-HPA 150, completion of one other course, and POI.

**HPA 262. Special Topics. (3 h)**

Seminar and/or lecture courses in selected topics. May be repeated if topic differs.

## Hindi-Urdu (HNU)

**HNU 111. Elementary Hindi-Urdu I. (3 h)**

Introduction to modern Hindi-Urdu. Designed for students with no knowledge of the language. Focus is on developing reading, writing, and conversation skills for practical contexts. Instruction in the Devanagari and Nastaliq scripts and the cultures of Indian and Pakistan. Fall only.

**HNU 112. Elementary Hindi-Urdu II. (3 h)**

Continued instruction in modern Hindi-Urdu. Students with previous background may place into this course with the instructor's permission. Focus is on developing reading, writing, and conversation skills for practical contexts. Instruction in the Devanagari and Nastaliq scripts and the cultures of India and Pakistan. Spring only. P-HNU 111.

**HNU 140. Introduction to the Hindi script (Devanagari). (1 h)**

Introduction to the Devanagari writing system used in Hindi, as well as other South Asian languages, including Nepali and Sanskrit. Includes an overview of the Hindi-Urdu sound system and language. Students with prior proficiency in spoken Hindi or Urdu may complete this course in preparation for entering Intermediate Hindi-Urdu (HNU 153 and 201).

**HNU 141. Introduction to the Urdu script (Nastaliq). (1 h)**

Introduction to the Nastaliq writing system used in Urdu, as well as Persian, Punjabi, and Kashmiri. Includes an overview of the Hindi-Urdu sound system and language. Students with prior proficiency in spoken Hindi or Urdu may complete this course in preparation for entering Intermediate Hindi-Urdu (HNU 153 and 201).

**HNU 153. Intermediate Hindi-Urdu I. (3 h)**

Second year of modern Hindi-Urdu. Students with comparable proficiency may place into this course with the instructor's permission. Focus is on building oral and written communication skills in a range of contexts. Exploration of the cultures of India and Pakistan through discussions of authentic materials. Instruction in Devanagari and Nastaliq scripts. Fall only. P-HNU 112.

**HNU 201. Intermediate Hindi-Urdu II. (3 h)**

Continued intermediate instruction in spoken and written Hindi-Urdu. Students with previous background may place into this course with the instructor's permission. Focus is on building oral and written communication skills in a range of contexts. Exploration of the cultures of India and Pakistan through discussions of authentic materials. Instruction in Devanagari and Nastaliq scripts. Spring only. P-HNU 153.

**HNU 287. Special Topics in Hindi-Urdu Language or Cultural Studies. (1-3 h)**

Selected themes and approaches to Hindi-Urdu language, culture, literature, drama, and/or film. May be repeated for credit when topic varies.

**HNU 288. Individual Study in Hindi-Urdu Language or Cultural Studies. (1-3 h)**

Course may be repeated for a total of 6 credit hours. P-POI.

## History (HST)

**HST 101. Western Civilization to 1700. (3 h)**

Survey of ancient, medieval, and early modern history to 1700. Focus varies with instructor. (CD, D)

**HST 102. Europe and the World in the Modern Era. (3 h)**

Survey of modern Europe from 1700 to the present. Focus varies with instructor. (CD, D)

**HST 103. World Civilizations to 1500. (3 h)**

Survey of the ancient, classical and medieval civilizations of Eurasia with a brief look at American and sub-Saharan societies. Focus varies with instructor. (CD, D)

**HST 104. World Civilizations since 1500. (3 h)**

Survey of the major civilizations of the world in the modern and contemporary periods. Focus varies with instructor. (CD, D)

**HST 105. Africa in World History. (3 h)**

Examines the continent of Africa from prehistory to the present in global perspective, as experienced and understood by Africans themselves. (CD, D)

**HST 106. Medieval World Civilizations. (3 h)**

Provides an overview of world civilizations in the period generally understood as "medieval," from 600 C.E. to 1600 C.E. The course examines cultures and societies in East Asia, India, Africa, and the Americas as well as Europe and asks if there is such a thing as a "medieval" world history. What characteristics do these widely differing cultures and geographic areas share, and where do they differ? (CD, D)

**HST 107. Middle East & the World. (3 h)**

Examines, in its global context, the Middle East region from the inception of Islam in the 7th century to the 20th century. Combines an introduction to Islamic civilization in its central lands with a close study of its interaction with other societies. (CD, D)

**HST 108. Americas and the World. (3 h)**

Examines North, Central and South America in global perspectives from premodern times to the present with particular attention to political, economic, social, and cultural developments and interactions. (CD, D)

**HST 109. Asia and the World. (3 h)**

Overview of Asia (primarily East, Southeast, and South Asia) since 1500 with emphasis on economic, diplomatic, cultural, and religious interactions with the outside world. (CD, D)

**HST 110. Atlantic World since 1500. (3 h)**

Examines the major developments that have linked the civilizations bordering the Atlantic Ocean from 1500 to the present. Themes include exploration; commerce; European colonization and indigenous responses; disease; religious conversion and revivalism; mestizo and creole culture; imperial warfare; enlightenment; revolution; slavery and abolition; extractive economies; nationalism; 'scientific racism;' invented traditions; the black diaspora and negritude; decolonization; the Cold War; segregation and apartheid; dictatorship; neoliberalism; and globalization. (CD, D)

**HST 111. Ancient World Civilizations. (3 h)**

Explores ancient civilizations from the perspective that each civilization is a reflection of local circumstances and the distinctive worldview that shaped its institutions to become a complex, state-organized society. (CD, D)

**HST 112. Big History: A History of the Cosmos and Humanity's Place In It. (3 h)**

Beginning 13.7 billion years ago and drawing on the sciences, social sciences, and history, this course offers a contemporary understanding of how the physical, social, and mental worlds people inhabit came to be. Its effort to integrate disciplines that usually remain unconnected should appeal to those who want to see how the pieces of education fit together. (CD, D)

**HST 113. Health, Disease and Healing in World History. (3 h)**

Examines political, economic, and cultural responses to sickness and disease in global historical context, paying particular attention to the intersection of religion and healing, as well as race, class, and gender, in ancient, medieval, early modern, pre-colonial, colonial, and post-colonial societies. (D)

**HST 114. Gender and Sexuality in World History. (3 h)**

Introduces the global and historical breadth of gender and sexual systems. Foundational and current approaches to cross-cultural historical analysis of masculinity, women's rights, and differences between LGBTQ identities and other models. Also listed as WGS 214. (CD, D)

**HST 119. Venice and the World. (3 h)**

The history of Venice is intertwined with many of the central themes of world history. Students will examine the history of Venice from its foundation to the present day, examining the ongoing reciprocal interactions between the city-state, Europe, and the wider world. Offered in Venice only. (CD, D)

**HST 120. Formation of Europe: Habsburg Empire and its Successor States. (3 h)**

The development of Central and East-Central Europe as a multiethnic unity under the Habsburgs, 1526-1918, and its dissolution into successor states and subsequent interactions, 1918-1989. Offered in Vienna. (D)

**HST 150. United States History. (3 h)**

Survey of U.S. history from the colonial period to the present.

**HST 151. The Golden Age of Burgundy. (1.5 h)**

Burgundian society, culture, and government in the reigns of Philip the Bold, John the Fearless, Philip the Good, and Charles the Rash, 1384-1477. Offered in Dijon.

**HST 161. History Museums. (1.5 h)**

Introduces students to history museums and surveys the major issues involved in the collection and display of historical objects, discusses the impact of social history on museum interpretations, and traces the ethical issues and public controversies stemming from the treatment of historical topics in museum settings.

**HST 162. History of Wake Forest. (1.5 h)**

A survey of the history of Wake Forest from its beginning, including its written and oral traditions. May include a visit to the town of Wake Forest.

**HST 171. Historical Biography. (1.5 h)**

Study of biographies of men and women who have influenced specific histories and civilizations. May be repeated for credit if topic differs.

**HST 172. Historical Novels. (1.5 h)**

The role of the historical past in selected works of fiction. May be repeated for credit if topic varies.

**HST 173. Historical Films. (1.5 h)**

Examines the value of film as a source for understanding the past. Includes viewing and discussing historical films in relation to primary and secondary source texts. May be repeated for credit if topic varies.

**HST 206. The Early Middle Ages. (3 h)**

European history from the end of the ancient world to the mid-12th century, stressing social and cultural developments.

**HST 207. The High Middle Ages Through the Renaissance. (3 h)**

European history from the mid-12th through the early 16th centuries, stressing social and cultural developments.

**HST 209. Europe: From Renaissance to Revolution. (3 h)**

A survey of European history from the 15th to the 18th century. Topics include the voyages of discovery, the military revolution, the formation of the modern state, religious reformation, witchcraft and the rise of modern science, and pre-industrial economic and social structures including women and the family.

**HST 216. General History of Spain. (3 h)**

History of Spain from the pre-Roman period to the present day. Counts as elective for the Spanish major. Offered in Salamanca.

**HST 217. France to 1774. (3 h)**

The history of France from the Paleolithic period to the accession of Louis XVI with particular attention to the early modern period.

**HST 218. France since 1815. (3 h)**

The history of France from the restoration of the monarchy to the Fifth Republic.

**HST 219. Germany to 1871. (3 h)**

Social, economic, and political forces leading to the creation of a single German nation-state out of over 1,700 sovereign and semi-sovereign German states.

**HST 220. Germany: Unification to Unification 1871 to 1990. (3 h)**

The Germans' search for stability and unity in a society riven by conflict and on a continent riven by nationalism.

**HST 221. The British Empire to 1815. (3 h)**

Explores the early history of the British Empire and imperialism until the end of the Napoleonic Wars in 1815, including the Elizabethan conquest of Ireland, global trade and exploration, the foundations of the East India Company, captivity and slavery, and revolution in the Atlantic world, with an emphasis on the place of religion, gender, race, and class in imperial rule.

**HST 222. The British Empire from 1815. (3 h)**

Examines the British Empire and British approaches to imperialism from the end of the Napoleonic Wars in 1815 through to the Brexit crises of the late 2010s. The course considers both formal and informal British influence in Latin America, the Caribbean, Africa, the Middle East and Asia, analyzing the interconnected political, economic, and socio-cultural drivers and outcomes of imperialism, as well as the many anti-imperial movements that developed in response to British rule.

**HST 223. The British Isles to 1750. (3 h)**

Discusses religious reformations in the 16th century; political and scientific experiments in the 17th century; and the commercial revolutions of the 18th century. Examines their effect on the way Englishmen and women conceived of their state, their communities and themselves, exploring social relationships and the changing experience of authority. The course also considers England's relationship to its neighbors, Scotland and Ireland, and these British Isles within the context of early modern Europe.

**HST 224. Great Britain since 1750. (3 h)**

Addresses topics in British history from the Industrial Revolution to New Labour, with attention to how politics and citizenship were linked to imperial power. Explores industrialization, liberalism and their discontents; colonization, decolonization, and immigration; social and urban riot and reform; world war; and the creation of the welfare state and its dismantling. The course also considers Britain's relationship with Ireland and European integration.

**HST 225. History of Venice. (3 h)**

The history of Venice from its origin to the fall of the Venetian Republic. Offered in Venice.

**HST 226. History of London. (1.5-3 h)**

Topographical, social, economic, and political history of London from the earliest times. Lectures, student papers and reports, museum visits and lectures, and on-site inspections. Offered in London.

**HST 228. Georgian and Victorian Society Culture. (3 h)**

Social and economic transformation of England in the 18th and 19th centuries, with particular attention to the rise of professionalism and developments in the arts. Offered in London.

**HST 229. Venetian Society & Culture. (3 h)**

An examination of Venetian society, including the role within Venetian life of music, theatre, the church, and civic ritual. Offered in Venice.

**HST 230. Russia: Origins to 1865. (3 h)**

A survey of the political, social, and economic history of Russia, from its origins to the period of the Great Reforms under Alexander II. Students taking HST 230 cannot receive credit for HST 232/REE 200.

**HST 231. Russia and Soviet Union: 1865 to Present. (3 h)**

A survey of patterns of socio-economic change from the late imperial period to the present, the emergence of the revolutionary movement, and the development of Soviet rule from its establishment to its collapse. Students taking HST 231 cannot receive credit for HST 232/REE 200.

**HST 232. Introduction to Russian and East European Studies. (3 h)**

An interdisciplinary survey of Russia and the Soviet Union, including an examination of society, polity, economy, and culture over time. Also listed as REE 200. Students taking HST 232/REE 200 cannot receive credit for HST 230 or 231. (CD)

**HST 235. The History of European Jewry from the Middle Ages to the Present. (3 h)**

Examines the Jewish historical experience in Europe from the medieval period to the Holocaust and its aftermath. Includes a consideration of social, cultural, economic and political history, and places the particular experience of Jews within the context of changes occurring in Europe from the medieval to the modern period.

**HST 236. The Nazi Holocaust to 1941. (3 h)**

Explores the preconditions and causes of the Nazi Holocaust and situates the Holocaust within the history of European colonial genocide and the rise of totalitarian regimes. Traces the development and radicalism of Nazism within Germany and discusses Nazi efforts to forge a racially pure state from Hitler's ascension to power in 1933 until the invasion of the Soviet Union in 1941. Examines the various ways that Jews and other groups targeted by Nazis responded to the rise of Nazism.

**HST 237. The Nazi Holocaust from 1941. (3 h)**

Examines the systematic attempt to exterminate European Jewry and other groups targeted by Nazi Germany on account of their perceived racial inferiority. In particular examines the period from the 1941 German invasion of the Soviet Union through the end of the war, and discusses the ghettoization of European Jews, the various means of mass murder, and the aftermath of the Holocaust. This class includes an optional trip to the United States Holocaust Memorial Museum in Washington, DC.

**HST 239. Jewish History in the Americas. (3 h)**

Examines the rich history of American Jewry from the period of first settlement to the present. Jews have been present in the Americas since the period of Dutch conquest in the mid-seventeenth century. Over the subsequent three and a half centuries, what was once a distant outpost of the Jewish world has today become a major center, and is home to one of the most diverse, populous, successful, and complicated communities in Jewish history.

**HST 242. Middle East before 1500. (3 h)**

A survey of Middle Eastern history from the rise of Islam to the emergence of the last great Muslim unitary states. The course provides an overview of political history with more in-depth emphasis on the development of Islamic culture and society in the pre-modern era. (CD)

**HST 243. Middle East since 1500. (3 h)**

A survey of modern Middle Eastern history from the collapse of the last great Muslim unitary states to the present day. Topics include the rise and demise of the Ottoman and Safavid empires, socio-political reform, the impact of colonialism, Islamic reform, the development of nationalism, and contemporary social and economic challenges. (CD)

**HST 244. Pre-Modern China to 1850. (3 h)**

Study of traditional China to 1850, with an emphasis on the evolution of political, legal and social institutions and the development of Chinese religion, learning and the arts. (CD)

**HST 245. Modern China since 1850. (3 h)**

Study of modern China from 1850 to the present, focusing on the major political, economic, and cultural transformations occurring in China during this period within the context of modernization, imperialism and (semi) colonialism, world wars and civil wars, revolution and reform, and the ongoing processes of globalization. (CD)

**HST 246. Japan before 1600. (3 h)**

A survey of Japan from earliest times to the coming of Western imperialism, with emphasis on regional ecologies, economic institutions, cultural practice, military organization, political ideology, and foreign relations. (CD)

**HST 247. Japan since 1600. (3 h)**

A survey of Japan in the modern world. Topics include political and cultural revolution, state and empire-building, economic "miracles", social transformations, military conflicts, and intellectual dilemmas. (CD)

**HST 249. Intro to East Asia. (3 h)**

An introduction to the histories and cultures of East Asia, from the earliest times to the present, focusing on China, Korea, Japan, and Vietnam, with some attention to the rest of South-East Asia, and emphasizing ecology and economy, trade and international relations, political ideology, religious belief, and cultural practice. (CD)

**HST 250. Premodern South Asia. (3 h)**

A survey of ancient and medieval South Asia beginning with the Indus Valley civilization to the decline of the Mughal Empire. (CD)

**HST 251. Modern South Asia. (3 h)**

A survey of colonial and post-colonial South Asia beginning with the political conquest of the British East India Company in the mid-18th century until the present. (CD)

**HST 254. American West to 1848. (3 h)**

The first half of a two-semester survey course of the North American West, from roughly 1400 to 1850. Topics include indigenous trade and lifeways, contact, conflict, and cooperation between natives and newcomers, exploration and migration, imperial geopolitical rivalries, and various experiences with western landscapes.

**HST 255. U.S. West from 1848 to the Present. (3 h)**

The second half of a two-semester survey course of the U.S. West, from 1848 to the present. Topics include industrial expansion and urbanization, conflicts with Native Americans, national and ethnic identity formations, contests over natural resources, representations and myths of the West, and religious, cultural, and social diversity.

**HST 256. The U.S. and the World, 1763-1914. (3 h)**

The first half of a two-semester survey on U.S. foreign relations. Major topics explore the economic, political, cultural, and social currents linking the U.S. to Europe, Africa, South America, and Asia between 1763 and 1914. Particular attention is given to the influence of the world system—ranging from empire, war, and migration to industrial competition and economic interdependence—on U.S. diplomacy, commerce, and domestic politics and culture.

**HST 257. The U.S. and the World since 1914. (3 h)**

The second half of a two-semester survey of U.S. foreign relations. Major topics explore the economic, political, cultural and social currents linking the U.S. to Europe, Africa, Latin America, the Middle East and Asia between since 1914. Particular attention is given to the influence of the international system—ranging from hot and cold wars, to decolonization, economic interdependence and transnational businesses and institutions—on U.S. diplomacy, commerce, and domestic politics and culture.

**HST 258. Colonial America. (3 h)**

Surveys and explores the encounters between natives and newcomers in North America between 1492 and 1763. Topics include development of new communities and cultures, as well as the roles warfare, trade, race, religion, and slavery played in the creation of "new worlds for all."

**HST 259. Revolutionary America. (3 h)**

Examines the transformation that unfolded during the struggles for sovereignty in North America between 1760 and 1800. Considers the political upheavals that converted some British colonists into insurgents and explores the unlikely unification of disparate provinces into a confederated republic.

**HST 262. Antebellum America. (3 h)**

Examines the sociocultural, economic, religious, and political transformations of American society from the period after the Revolutionary War through the onset of the American Civil War.

**HST 263. The U.S. Civil War and Reconstruction. (3 h)**

The political, social, and military events of the war and the economic, social, and political readjustments which followed.

**HST 264. U.S. History 1877-1933: Industrialization, Urbanization, and Conflict. (3 h)**

Political, social, and economic developments in the U.S. from 1877 to 1933 with emphasis on industrialization, urbanization, immigration, growth of Big Business, imperialism, Progressive reform, war, depression, and race, class, and gender conflicts.

**HST 265. US History since the New Deal. (3 h)**

Political, social, and economic history of the U.S. since 1933 with emphasis on the Depression, wars at home and abroad, unionism, civil rights movements, countercultures, environmentalism, religion, the Imperial Presidency, and liberalism and conservatism.

**HST 266. The History of the Slave South. (3 h)**

Examines slavery and southern distinctiveness, from the first interactions of Europeans, Native Americans and Africans through the Civil War and Emancipation. (CD)

**HST 267. The Making of the Modern South since the Civil War. (3 h)**

Traces the history of race relations and southern culture, politics, and economics from sharecropping and segregation through political reform, the Civil Rights Movement, and the Republican New South. (CD)

**HST 268. African History to 1870. (3 h)**

Overview of African history prior to the establishment of European colonial rule, covering the period from the 4th century until 1870. Focuses on sub-Saharan Africa and uses case studies in various regions. (CD)

**HST 269. African History since 1850. (3 h)**

Overview of African history, beginning with the period following the abolition of the Trans Atlantic Slave Trade and ending with contemporary challenges of independent African nations. Emphasizes sub-Saharan African perspectives, initiatives, and historical agency. (CD)

**HST 271. African American History to 1870. (3 h)**

Examines the experiences of African-descended people from Africa to America and from slavery to freedom, with each experience - the slave trade, enslavement, and emancipation - marking a fundamental transformation in black lives. (CD)

**HST 272. African American History since 1870. (3 h)**

Examines the experiences of African-descended people from the destruction of slavery to Reconstruction, from rural to urban, and from Jim Crow to Civil Rights, with each experience - emancipation, migration, and enfranchisement - marking a fundamental transformation in black lives. (CD)

**HST 275. Modern Latin America. (3 h)**

Survey of Latin-American history since independence, concentrating on the 20th century. Emphasizes race, gender, revolution, populism, dictatorship, resistance movements, and U.S.-Latin American relations. Examines cultural artifacts from multiple genres. (CD)

**HST 284. Latin America's Colonial Past. (3 h)**

Studies the history of Latin America's colonial past from the precolonial era to the wars of independence in the early 19th century. Topics include: Conquest controversies; autonomy, adaptation, and resistance in indigenous and African communities; sexuality and the Inquisition; and evolving systems of race, caste, and gender. (CD)

**HST 300. History Fin de Siecle Vienna. (3 h)**

Examination of major developments in Viennese culture, politics and society from the 1880s to 1918. Important figures to be discussed may include Mahler, Schoenberg, Klimt, Schiele, Kokoshchka, Schnitzler, Musil, Kafka, Freud and Herzl. Offered only in Vienna.

**HST 304. Travel, History and Landscape in the Mediterranean. (3 h)**

This course considers broader debates about the nature of "Mediterranean" societies in the late medieval and early modern period through case studies of particular places. Topics include cross-cultural cooperation and conflict, travel and travel narratives, the creation of national identities through public history, and contests over development and/or conservation of natural and cultural resources. Offered only in the Mediterranean.

**HST 305. Medieval & Early Modern Iberia. (3 h)**

Examines the variety of Christian, Muslim, and Jewish cultures that flourished on the Iberian peninsula between the years 700 and 1700. Themes include religious diversity and the imposition of orthodoxy, the formation of nation-states and empires, geographic exploration and discovery, and the economics of empire in the early modern period. (CD)

**HST 306. Science, Magic, and Alchemy in Europe, 1400-1700. (3 h)**

Examines scientists and magicians in medieval Europe, who developed theoretical models and practical approaches to understand and to manipulate the natural world. Looks at alchemists, who transformed matter to understand it as well as to make things for practical purposes: metals, gems, medicines, and the philosopher's stone.

**HST 307. Italian Renaissance. (3 h)**

Examination of the economic, political, intellectual, artistic, and social developments in the Italian world from 1350 to 1550. (CD)

**HST 308. World of Alexander the Great. (3 h)**

An examination of Alexander the Great's conquests and the fusion of Greek culture with those of the Near East, Central Asia, and India. Special emphasis placed on the creation of new political institutions and social customs, modes of addressing philosophical and religious issues, as well as the achievements and limitations of Hellenistic Civilization.

**HST 309. European International Relations since World War I. (3 h)**

Surveys European International Relations in the 20th century beyond treaties and alliances to the economic, social, and demographic factors that shaped formal arrangements between states. Covers the impact of new forms of international cooperation, pooled sovereignty, and non-governmental organizations on European diplomacy and internal relations.

**HST 310. 20th Century Eastern Europe. (3 h)**

Examination of the history of 20th century Eastern Europe, including the creation of nation-states, World War II, and the nature of Communist regimes established in the postwar period. Course includes a discussion of the collapse of the Eastern Bloc and the challenges of European integration.

**HST 311. Special Topics in History. (1-3 h)**

Subject varies with instructor.

**HST 311A. Special Topics: American. (1-3 h)**

Subject varies with instructor.

**HST 311E. Special Topics: European. (1-3 h)**

Subject varies with instructor.

**HST 311G. Special Topics: General. (1-3 h)**

Subject varies with instructor.

**HST 311W. Special Topics: Wider World. (1-3 h)**

Topic varies with instructor.

**HST 312. Jews, Greeks and Romans. (3 h)**

Largely from a Jewish context, the course explores the political, religious, social and philosophical values shaped by the collision between Jews, Greeks, and Romans, from the Hellenistic Period to the Middle Ages.

**HST 315. Greek History. (3 h)**

The development of ancient Greek civilization from the Bronze Age to the end of the Classical Period stressing social institutions, individual character, and freedom of social choice within the framework of cultural, political, and intellectual history.

**HST 316. Rome: Republic and Empire. (3 h)**

A survey of Roman history and civilization from its beginning to about 500 C.E., with emphasis on the conquest of the Mediterranean world, the evolution of the Republican state, the growth of autocracy, the administration of the empire, and the interaction between Romans and non-Romans.

**HST 317. The French Revolution and Napoleonic Empire. (3 h)**

The revolution and wars that constitute one of the pivotal points in modern history.

**HST 318. Weimar Germany. (3 h)**

Art, literature, music, and film of Weimar Germany, 1919-1933, in historical context. German or history credit determined at registration. Also listed as GES 331.

**HST 320. Write and Record! Diaries and Memoirs of the Nazi Holocaust. (3 h)**

Examines a wide range of diaries and memoirs to illuminate the historical period of Nazism, seeking to understand daily life under Nazi rule, the brutality of the perpetrators, and the many responses of Jews forced to live in such circumstances. From Anne Frank's account of hiding in an Amsterdam secret annex to Art Spiegelman's graphic novel of his parent's experience in Auschwitz, the diaries and memoirs of Holocaust victims provide an invaluable resource for historians.

**HST 321. Zionism, Palestine, and Israel in Historical Perspective. (3 h)**

Investigates both the European causes of Zionism and the Middle Eastern consequences of the establishment of the State of Israel. Through our discussion, students will be introduced to many of the scholarly debates over the history, practices, and consequences of Zionism, the State of Israel, and the Israel-Palestinian conflict.

**HST 322. Migrants and Refugees in Modern History. (3 h)**

Explores forced migrations and the development of the concept of refuge from the 16th to 20th centuries, drawing on cases from around the world. Considers how states, empires, and non-governmental organizations have handled migrants and refugees, as well as the lived experiences of displaced individuals.

**HST 324. Fashion in the Eighteenth Century. (3 h)**

Examines the relationship between consumer culture and democratic politics in the eighteenth-century, focusing on Britain, North America, France, and Haiti. Considers laws regulating dress; the relationship between democracy, political resistance, and costume; the construction of political allegiance through clothes and symbols; and the ways fashion mediated ideas about empire, race, and gender.

**HST 325. English Kings, Queens, and Spectacle. (3 h)**

Examines how English royal authority was created, legitimized, performed, and challenged, between the reigns of Henry VIII and George III through ritual, image, and text. Topics include: gender and power; court culture; the press and political revolution; popular politics and propaganda; graphic satire; and the commercialization of politics.



**HST 326. The Industrial Revolution in England. (3 h)**

A study of the social, economic, and political causes and effects of the Industrial Revolution in England. Offered in London.

**HST 327. Profit and Power in Britain. (3 h)**

Examines economic ideas and British society between 1688 and 1914. Topics include connections between consumption and identity; the relationship of morals to markets; the role of gender and the household; knowledge, technology, and the industrial revolution; and the place of free trade in the political imagination.

**HST 328. History of the English Common Law. (3 h)**

A study of the origins and development of the English common law and its legacy to modern legal processes and principles.

**HST 331. The United States in Age of Empire, 1877 - 1919. (3 h)**

Explores the late 19th and early 20th centuries when the United States joined in the global scramble for empire. Examines the domestic and international causes of American imperial expansion; the modes of rule that the U.S. exercised in its formal and informal possessions; and the political and intellectual debates at home and abroad about America's expansion as a world power.

**HST 332. The United States and the Global Cold War. (3 h)**

Considers United States efforts to secure its perceived interests through "nation building" and economic development in Africa, Latin America, the Middle East, and much of Asia during the Cold War and after. Emphasizes the ideological and cultural dimensions of American intervention.

**HST 333. European Diplomacy 1848-1914. (3 h)**

The diplomacy of the great powers, with some attention given to the role of publicity in international affairs. Topics include the unification of Italy and of Germany, the Bismarckian system, and the coming of World War I.

**HST 334. Mystics, Monarchs, and Masses in South Asian Islam. (3 h)**

An introduction to Islam through South Asian social, political, cultural, and intellectual history. (CD)

**HST 335. Hindus and Muslims in India, Pakistan, and Beyond. (3 h)**

Examines the shared yet different, intertwined yet separate histories of the Hindus and Muslims of modern India, Pakistan, Bangladesh, and Sri Lanka primarily over the last two centuries. Explores the checkered existence of the two communities in order to understand diversity and questions of coexistence and conflict. (CD)

**HST 336. Gender and Power in African History. (3 h)**

Examines the close relationship between understandings of gender and power in African societies with particular focus on the last several hundred years. After addressing the sources and methods scholars have used to address these topics, the course examines conceptions of gender and power in pre-colonial African societies, the impact of the colonial period on men and women, the gendered nature of nationalism and independence, and the importance of gender and power to many of Africa's post-colonial challenges. (CD)

**HST 337. Women and Gender in Early America. (3 h)**

History of women and gender roles from 1600 through the Civil War, including the social constructions of femininity and masculinity and their political, economic, and cultural significance. (CD)

**HST 338. Sexuality, Race and Class in the United States since 1850. (3 h)**

History of gender relations from the mid-nineteenth century to the present. Analyzes the varying definitions of femininity and masculinity, the changing notions of sexuality, and the continuity and diversity of gender roles with special attention to race, class, and ethnicity.

**HST 339. Sickness and Health in American History. (3 h)**

Analysis of major trends in health, sickness, and disease within the broad context of social, political, and economic developments. Examines indigenous healing; colonial medicine; emergence of hospitals and asylums; public health; medical ethics; race, class and gender issues; and natural versus high-tech approaches to health care in the 20th century.

**HST 340. Urban Africa. (3 h)**

Examines how urban residents have worked to creatively shape some of sub-Saharan Africa's major transformations. Major topics include the social and cultural fabric of pre-colonial African cities, the impact of colonialism on African towns, cities as sites of revolution and independence, and the contemporary conditions and challenges facing urban residents. While popular imagination suggests that the African past is largely a rural one, many of the continents' most explosive social and cultural transformations have taken place in its cities. (CD)

**HST 341. Africans in the Atlantic World, 1750-1815. (3 h)**

Explores Africans' experience in the Atlantic world (Africa, Europe and the Americas) during the era of the slave trade by examining their encounters with Indians and Europeans and their adjustment to slave traders in West Africa. Also listed as AES 341. (CD)

**HST 343. The Silk Roads. (3 h)**

Explores the global exchanges across land and sea from the Bronze Age to the Early Modern Era, and their impact on the states and stateless societies connected by the Silk Road from China and Japan to the Mediterranean and the British Isles. (CD)

**HST 344. Early Modernity in China. (3 h)**

This course explores historic transformations in Chinese economy, society, thought, and culture from 1500 to 1800. These developments are placed within their local, global, and comparative context. Students read a wide variety of Chinese primary sources in English translation, including philosophical treatises, literary works, letters, diaries, and memoirs, some of which were written by Jesuit missionaries from Catholic Europe. (CD)

**HST 347. The Rise of Asian Economic Power since WWII. (3 h)**

An exploration of how Japan, South Korea, and China became dominant in world economies. Focus on business practices, foreign trade, government policy, and consumer and labor markets in the process of high-speed economic growth. Concludes with examination of recent challenges of national debt, increasing international competition, and aging societies. (CD)

**HST 348. Samurai and Geisha: Fact, Film, and Fiction. (3 h)**

Focuses on two well-known groups in Japanese history, the samurai (warriors) and geisha (entertainers). By analyzing historical studies and primary sources, as well as works of fiction and films about samurai and geisha, the course considers how Japanese and Western historians, novelists, and filmmakers have portrayed the two groups and by implication Japan and its history in the modern period. (CD)

**HST 349. American Foundations. (3 h)**

An interdisciplinary study of American art, music, literature, and social history with particular reference to the art collection at Reynolda House, Museum of American Art. Lectures, discussions, and field trips, including a tour of New York City museums. Term project in American history. Also listed as Art 331, Interdisciplinary Honors 393, 394, and Music 307. Offered at Reynolda House in summer only.

**HST 350. World Economic History: Globalization, Wealth and Poverty, 1500-Present. (3 h)**

Explores the growth of globalization and its role in the creation of wealth and poverty in both developed and underdeveloped nations. Focus on trade, industrialization, and agricultural and technological advances in global contexts. (CD)

**HST 352. Ten Years of Madness: The Chinese Cultural Revolution, 1966 to 1976. (3 h)**

A history of the Chinese Cultural Revolution from 1966 to 1976. Examines the origins, consequences, and collective memories of the catastrophic political events and the social and cultural transformations that took place in China during the last decade of Mao's leadership. (CD)

**HST 353. War and Society in Early America. (3 h)**

Examines the evolution of warfare among the indigenous and colonial societies of North America between 1500 and 1800 and considers the roles of economics, class, gender, race, religion, and ideology in cultures of violence.

**HST 354. The Early American Republic. (3 h)**

A history of the formative generation of the United States. Considers the dramatic transformations of the constitutional, economic, and racial orders, as well as new performances in politics, national identity, gender, and culture.

**HST 356. Jacksonian America 1815-1850. (3 h)**

The United States in the age of Jackson, Clay, Calhoun, and Webster.

**HST 358. Race, Gender and the Courts. (3 h)**

Examines the impact of state and federal court cases upon the evolution of race and gender relations in the U.S. from 1789 to the present. Each case is placed within the political, economic and social historical context for the given time periods. Race includes Native Americans, African Americans, Asian Americans, and Latino Americans. This class will analyze government intervention, inaction, and creative interpretation. (CD)

**HST 359. Prostitutes, Machos, and Travestis: Sex and Gender in Latin American History. (3 h)**

Explores gender and sexuality across 20th century Latin America and the Caribbean. Applies new theoretical developments in gender, masculinity, and LGBT studies to the region's history of race, revolution, labor, dictatorship, and social movements. Cases include the Mexican, Cuban, and Nicaraguan Revolutions and the Dominican and Argentine dictatorships. (CD)

**HST 362. American Constitutional History. (3 h)**

Origins of the Constitution, the controversies involving the nature of the Union, and constitutional readjustments to meet the new American industrialism.

**HST 365. Modern Native American History. (3 h)**

Considers broad historical issues and debates about Native American identity, experiences with and memories of colonialism, cultural preservation and dynamism, and political sovereignty from 1830 to the present. Focuses on individual accounts, tribal case studies, and popular representations of Native people. (CD)

**HST 366. Historic Preservation and Conservation. (3 h)**

Explores the history of the preservation and conservation movements organized to save historic buildings and landscapes in the U.S. and other nations. Examines the laws, international charters, national, statewide, and local agencies, practices, collaborations, and emerging challenges of historic preservation and conservation.

**HST 367. Public History. (3 h)**

Introduces students to the major issues involved in the practice, interpretation, and display of history for nonacademic audiences in public settings. Central themes include controversial historical interpretations, the role of history in popular culture, issues and aims in exhibiting history, and the politics of historical memory. Explores some of the many ways people create, convey, and contest history, major themes in community and local history, and the problems and possibilities of working as historians in public settings.

**HST 368. U.S. Environmental History. (3 h)**

Focuses on human actors and actions while highlighting how the material, or natural, world impacted Americans and shaped the nation. Students will investigate U.S. politics, society, and culture through the lens of the environment while exploring how Americans defined, represented, and used their natural environment over time.

**HST 369. Modern Military History. (3 h)**

Making war in the modern era, with special attention to the social context of military activity. Counts toward the American distribution for majors. Credit not allowed for both HST 369 and MIL 229.

**HST 370. Topics in North Carolina History. (3 h)**

A general chronological survey of North Carolina with emphasis on selected topics. May be repeated for credit if topic varies.

**HST 371. Transgender History, Identity, and Politics in the U.S. (3 h)**

This course explores the experiences of and responses to transgender, gender non-conforming, and intersex (TGI) people in nineteenth-and twentieth-century America. We will examine how scientific/medical authorities, legal authorities, and everyday people have understood and responded to various kinds of gender non-conformity. Same as WGS 305. (CD)

**HST 372. Queer Public Histories. (3 h)**

Explores how public history projects (oral histories, museums, archives, documentaries) document gay, lesbian, and queer communities in the U.S. Discusses how historical and contemporary LGBTQ stories have been collected and examines the various queer identities that emerge through this process. Same as WGS 306.

**HST 373. Anglo-American Relations since 1940. (3 h)**

A study of the relations between the United States and Britain from 1940 to the present. Offered in London.

**HST 374. Protest and Rebellion in Latin America. (3 h)**

A study of the history of protest movements and rebellions in Latin America from primitive and agrarian revolts to mass working class and socialist organizations. (CD)

**HST 375. Black Lives. (3 h)**

Explores both the lived experience and the historical reality of African Americans. Black lives are profoundly shaped by their group experience, influenced in no small part by the role of racism. The biographical approach individuates historical figures struggling to fashion identity. Topics include character development, intimacy, gender roles, public and private personas, self-deceptions or defenses, and personal perceptions of biases. The craft of writing biography is taught throughout the semester. (CD)

**HST 376. Civil Rights and Black Consciousness Movements. (3 h)**

A social and religious history of the African-American struggle for citizenship rights and freedom from World War II to the present. (CD)

**HST 378. Race, Memory, and Identity. (3 h)**

Explores the collective memory and identity of American-Indian and African-American communities and their response to historical trauma in their cultural imagination, spirituality, and political and social activism. Also listed as REL 348. (CD)

**HST 380. America at Work. (3 h)**

Examines the American entrepreneurial spirit within the broader context of industrial, social, and economic change from the colonial period to the present and explores the social and cultural meanings attached to work and workers, owners and innovators, businesses and technologies, management and leadership. Also listed as ENT 380. (CD)

**HST 381. Religious Utopias and the American Experience. (3 h)**

Religious groups of many different origins have found in North America an open space for creating settlements that would embody their ideals. This course surveys a range of such 18th- and 19th-century utopian communities, including Moravians, Rappites, Shakers, and the Oneida and Amana colonies. Also listed as REL 346.

**HST 382. Religion in the Development of Higher Education. (3 h)**

Examines the role of religious groups in the founding of American colleges and universities and explores how their role has changed across history up through contemporary trends and issues. Major themes include the heritage of religion in European higher education; institutions of higher education founded by specific American religious groups; religion in the liberal arts curriculum; religious activities in student life; the relationship of colleges and universities with religious sponsors and constituents, focusing on controversies such as science and religion; the impact of universities on liberal arts colleges; and the trends toward growth and "secularization" in the last 50 years.

**HST 384. Global Outlaws History since 1500. (3 h)**

Examines the motivations, ideologies, goals, and behavior of those who have been deemed "outlaws" to international society since 1500, including pirates, terrorists, smugglers, war criminals, and violators of copyright. Analyzes the role of power in creating the global regimes that define and target such activities.

**HST 385. History through Film: Bollywood and the Making of Modern India. (3 h)**

Juxtaposes historical films made by the world's largest film industry base out of Bombay/Mumbai with textual primary sources and secondary historical works and seeks to understand films as both interpretations and sources of history. Explores specific themes such as nation, gender, caste, and community that are critical to understanding modern Indian and South Asian history and culture. (CD)

**HST 387. The Last Great Muslim Empires. (3 h)**

Examines, in a comparative way, central themes in the history of the Ottoman, Mughal, and Safavid Empires in the early modern period (1400-1800). Considers the ways in which Muslim rulers fostered political legitimacy, ruled over non-Muslim and heterodox subject populations, and recruited persons of diverse religious and ethnic background into state service. (CD)

**HST 388. Nation, Faith, and Gender in the Middle East. (3 h)**

Traces the development of nationalism and its interaction with religious, transnational, and gender identities in the Middle East in the 19th and 20th centuries. Topics include Zionism, Abramism, Turkish nationalism, and Islamic revivalism. (CD)

**HST 389. The British Empire in the Middle East. (3 h)**

Covering the period from the late 18th to late 20th centuries, this course considers British involvement in the Middle East, exploring the political, economic, social and cultural facets of imperial power, decolonization and post-colonial international relations. (CD)

**HST 390. Research Seminar. (4 h)**

Offered by members of the faculty on topics of their choice. A paper is required.

**HST 391. Making History. (3 h)**

Seminar explores how historians make history through analysis, synthesis, and interpretation. Open to all students. All honors students must take HST 391.

**HST 392. Individual Research. (4 h)**

Writing of a major research paper. May be taken in lieu of HST 390. P-POI.

**HST 395. Internship in History. (1-3 h)**

Internship in the community that involves both hands-on experience and academic study. Juniors and seniors only. P-POI.

**HST 397. Historical Writing Tutorial. (1.5 h)**

Individual supervision of historical writing to improve a project initiated in HST 390 or HST 392. Does not count toward major or minor requirements. P-POI.

**HST 398. Individual Study. (1-3 h)**

Project for a qualified student in an area of study not otherwise available in the department; subject to approval. Work must be equivalent to an upper-level course.

**HST 399. Directed Reading. (1-3 h)**

Concentrated reading in an area of study not otherwise available. P-POI.

## Honors (HON)

**HON 131. Approaches to Human Experience I. (3 h)**

An inquiry into the nature and interrelationships of several approaches to man's experience, represented by the work of three such minds as Leonardo da Vinci, Dante, Klee, Lorenz, Confucius, Dostoevsky, Descartes, Goya, Mozart, Jefferson, and Bohr. Seminar discussion based on primary and secondary sources, including musical works and paintings. Written reports and a term paper required. Offered in alternate years.

**HON 132. Approaches to Human Experience II. (3 h)**

An inquiry into the nature and interrelationships of several approaches to man's experience, represented by the work of three such minds as Leonardo da Vinci, Dante, Klee, Lorenz, Confucius, Dostoevsky, Descartes, Goya, Mozart, Jefferson, and Bohr. Seminar discussion based on primary and secondary sources, including musical works and paintings. Written reports and a term paper required. Offered in alternate years.

**HON 133. Approaches to Human Experience II. (3 h)**

A parallel course to HON 131 and 132, concentrating on the work of a different set of figures such as Einstein, Galileo, Keynes, Pascal, Camus, Picasso, Ibsen, Stravinsky, Sophocles, and Bach. Offered in alternate years.

**HON 134. Approaches to Human Experience II. (3 h)**

A parallel course to HON 131 and 132, concentrating on the work of a different set of figures such as Einstein, Galileo, Keynes, Pascal, Camus, Picasso, Ibsen, Stravinsky, Sophocles, and Bach. Offered in alternate years.

**HON 236. The Force of Impressionism. (3 h)**

Impressionism and its impact on modern painting and literature, with attention to origins and theories of style. Painters to include Manet, Monet, Renoir, Degas, and Cezanne. Writers to include Baudelaire, Flaubert, Mallarme, James, Pound, Joyce, and Woolf.

**HON 237. The Scientific Outlook. (3 h)**

An exploration of the origins and development of the scientific method and some of its contemporary applications in the natural and social sciences and the humanities.

**HON 238. Romanticism. (3 h)**

Romanticism as a recurrent characteristic of mind and art and as a specific historical movement in Europe and America in the late eighteenth and nineteenth centuries. Emphasis on primary materials in philosophy, literature, music, and painting.

**HON 240. Adventures in Self-Understanding. (3 h)**

Examination and discussion of significant accounts of the quest for understanding of the self, in differing historical periods, cultural contexts, and genres. Among figures who may be discussed are Augustine, Dante, Gandhi, Montaigne, Descartes, Pascal, and selected modern writers.

**HON 241. The Tragic View. (3 h)**

The theory of tragedy in ancient and modern times; the expression of the tragic in literature, art, music, theatre, and film.

**HON 242. The Comic View. (3 h)**

The theory of comedy in ancient and modern times; the expression of the comic in literature, art, music, theatre, and film.

**HON 247. The Mythic View. (3 h)**

The nature of myth through creation and hero myths; the uses to which myths have been put in different historical periods; various modern explanations of myth (literary, religious, anthropological, psychoanalytic, social, and historical).

**HON 248. The Ironic View. (3 h)**

An investigation of the ironic view of life in literature, art, history, theater, and film.

**HON 257. Images of Aging in Humanities. (3 h)**

Multidisciplinary presentation and discussion of portrayals of aging in selected materials from several of the liberal arts: philosophical and religious perspectives; selections from literature and the visual arts; historical development of perceptions of aging; imaging of aging in contemporary culture.

**HON 258. Venice in Art and Literature. (3 h)**

An exploration of what Venice has meant to nonnative artists and writers, and what they have made of it. Artists and writers include Byron, Turner, Ruskin, Henry James, Sargent, Whistler, Proust, Mann, and others.

**HON 265. Humanity and Nature. (3 h)**

A multidisciplinary exploration of relations of human beings to nature, and of scientific, economic, and political factors in current environmental concerns. Selected religious, classical, and philosophical texts; works of visual art; selected discussions of ecology and human responsibility. Also listed as HMN 365.

**HON 281. Directed Study. (3 h)**

Readings on an interdisciplinary topic approved by the Committee on Honors; presentation of a major research or interpretive paper based on these readings, under the direction of a faculty member; an oral examination on the topic, administered by the faculty supervisor and the Committee on Honors. Eligible students who wish to take this course must submit a written request to the Committee on Honors by the end of the junior year. Not open to candidates for departmental honors.

**HON 285. Performance Art and Theory. (3 h)**

Introduction to the theory of performance art and its practice, with attention to its interdisciplinary underpinnings in art, music, dance, and theatre. Student performances required.

**HON 310. The Medieval World: Special Topics. (3 h)**

A team-taught interdisciplinary course spanning the Middle Ages (500-1500) which considers artistic and/or literary representations and texts in the context of political, historical, or religious culture of the medieval period in Western and non-Western areas of the world. The specific content is determined by the individual instructors.

**HON 365. Literature, Song, and Folklore in Scotland, Ireland, and Appalachia. (3 h)**

A study of the diaspora of Scottish and Irish literature, song, and folklore to the Appalachian region of the United States from the 17th Century to the Present.

**HON 390. Postmodern Thought and Expression. (3 h)**

An exploration of postmodern philosophy, literature, and art, beginning with Nietzsche, Foucault, and Derrida, and extending into experiments in literature and art of the late twentieth and early twenty-first centuries.

**HON 393. American Foundations I. (3 h)**

Interdisciplinary study of American art, music, literature, and social history with particular reference to the art collection at Reynolda House Museum of American Art. Lecture and discussion. Also listed as ART 331, HST 349, and MUS 307. Offered at Reynolda House in summer only. English majors may receive credit for ENG 302. Major credit in any department dependent upon staffing by that department.

**HON 394. American Foundations II. (3 h)**

Interdisciplinary study of American art, music, literature, and social history with particular reference to the art collection and/or exhibitions at Reynolda House Museum of American Art. Lecture and discussion. Also listed as ART 331, HST 349, and MUS 307. English majors may receive credit for ENG 302. Major credit in any department dependent upon staffing by that department.

## Humanities (HMN)

**HMN 160. Contemporary Venetian Experience. (1.5 h)**

Social, artistic and environmental aspects of life in contemporary Venice. Includes site visits, guest lectures, and interviews with Venetians. Taught only in Venice. Pass/fail.

**HMN 170. Contemporary Spanish Experience. (1.5 h)**

Social, political, cultural, and environmental factors of life in Spain today. Taught in Salamanca only. Pass/fail only.

**HMN 180. Contemporary London Experience. (1.5 h)**

Social, political, cultural, and environmental factors of life in London today. Taught only in London. Pass/fail.

**HMN 186. Contemporary Chilean Experience. (1.5 h)**

Social, political, cultural, and environmental factors of life in Chile today. Pass/fail. Taught in Chile only.

**HMN 190. Contemporary Viennese Experience. (1.5 h)**

Social, cultural, and environmental factors of life in contemporary Vienna. Includes site visits, guest lectures and interviews with Viennese. Taught only in Vienna. Pass/Fail only.

**HMN 200. Introduction to Humanities: Themes in Literature, Culture, and Film. (3 h)**

An introduction through literature and film to the history, principles, and concepts of the Humanities, using as its framework an examination of such topics as dystopia and utopia, the influence of Classical principles on contemporary Western cultures, social justice and human rights in literature and film, and other topics central to the humanities. Literary and film analysis will explore how cultural values and beliefs are expressed in media and writing, as well as how these beliefs are manifested in popular culture. The course will include creative writing exercises that explore various literary tropes and humanistic themes. (D)

**HMN 211. Dialogues with Antiquity. (3 h)**

Introduction to key ideas and concepts from ancient cultures and their legacies in medieval, modern, and contemporary societies through an interdisciplinary lens. Topics vary with the instructor. (D)

**HMN 212. Reading the Modern World. (3 h)**

Analyzes pivotal moments in modern and contemporary world history through artistic, literary, and cultural manifestations. Course topics vary with the instructor and may include the rise of nationalism and western democracy, the development of European colonialism, and the social, political, and religious causes of international conflicts from world wars to terrorism. (D)

**HMN 213. Studies in European Literature. (3 h)**

Texts studied are by such authors as Dante, Montaigne, Cervantes, Goethe, Dostoevsky, and Camus. (D)

**HMN 219. Introduction to Japanese Literature. (3 h)**

Explores Japanese literature of the modern and contemporary periods. The course examines ways in which literature reveals underlying Japanese values and provides commentary on social, cultural, class, sexuality and gender-based tensions in Japanese society. Course topics include narratives of Japanese cultural and historical development and tropes of modernity in film, art, and culture. (CD, D)

**HMN 220. Historical Perspectives on the Humanities. (3 h)**

Introduction to the concepts and methodology of the curriculum inspiring the Pro Humanitate motto. Investigation of the historical development of the humanities as an academic field founded in the principles of the liberal arts and of its relationship to theology, natural science, and social science.

**HMN 223. African and Caribbean Literature. (3 h)**

Examines works by writers from Africa and the Caribbean to investigate the intersection of history and personal history, and the role of race, class, and gender in the construction of cultural identity in the colonial and the postcolonial context. (CD,D)

**HMN 225. Literature, Travel, and Discovery. (3 h)**

Explores various works, primarily in translation, from Homer to the present that focuses on the relationship between travel and discovery, especially as travel establishes the ongoing connection between the sacred and the profane for both guest and host.

**HMN 226. Interdisciplinary Approaches to Contemporary Fiction. (3 h)**

Examines the formal and thematic developments of the short story and the novel, focusing on fiction's engagement with history, culture, and society from a transnational and interdisciplinary perspective. (CD, D)

**HMN 227. Engaging the Humanities: Social Justice and Equity in Communities. (3 h)**

This course articulates and experiments with frameworks in the Humanities for critically and compassionately engaging pressing social concerns. Course activities include learning to ethically enter into communities, to remain accountable, and to imagine a more equitable society. Readings from contemporary social justice, ethics and literary scholars, in addition to case studies, will provide an introduction to approaches to navigating social contexts and collaborating with community partners. (CD)

**HMN 228. Viennese Culture 1860-1914. (3 h)**

A study of late nineteenth and early twentieth century Vienna as reflected in the matrix of the city's civic and artistic life. Offered in Vienna.

**HMN 232. Italy in Literature. (3 h)**

Readings and discussions in fictions, drama, and poetry that highlight trends and genres in Italian literature from the Middle Ages through contemporary times, and/or literature that features Italy as seen through the eyes of foreigners. Taught only in Venice.

**HMN 262. Racism, Heterosexism, and Religious Intolerance. (3 h)**

A comparative cultural examination through fiction and non-fiction sources of the initiation, maintenance, and treatment of prejudice, with emphasis on American society from the Jim Crow era to the present.

**HMN 272. Literature and Ethics. (3 h)**

Exploration of the possibility of applying ethical frameworks to literature and the challenges raised in fields including the health humanities and bioethics that can challenge literary analysis. The course will explore ethics through prose fiction and nonfiction, poetry, drama, and other writing. Representative authors may include Shakespeare, Hawthorne, Austen, Browning, Dostoevsky, Silone, Nabokov, Miller and Ishiguro. (CD, D)

**HMN 290. The Humanities through Film, Literature and Media. (3 h)**

Using film, literature and media genres as tropes for analysis, an exploration of new and innovative approaches to the humanities in the late 20th and early 21st century including public humanities, digital humanities, and environmental humanities and examining cultural studies, interdisciplinary studies, and gender and sexuality studies as approaches for investigating social justice, environmental justice, and social action. (CD)

**HMN 291. The Humanities and History: Intersections of Public History and the Public Humanities. (3 h)**

Exploration of approaches to public engagement developed in humanities disciplines and an examination of contributions of disciplines in the humanities and the liberal arts to civic discourse and to public engagement. The course includes design and implementation of a local public humanities project.

**HMN 292. Environmentalism, the Humanities, and Gender. (3 h)**

Survey of the global spread of Environmentalism, with an emphasis on its evolution as a disciplinary field that includes eco-feminism and feminist perspectives on the environment. Topics include the investigation of women's roles in environmental history and the construction of global environmental narratives. Also listed as WGS 309.

**HMN 294. Digital Approaches in the Humanities. (1.5, 3 h)**

An introduction to the concepts and tools of the digital humanities. Projects in the digital humanities include exercises that employ the use of these tools to examine data and narratives of the humanities, including disciplinary approaches in literature, public history, women's, gender, and sexuality studies, and media studies.

**HMN 295. Social Entrepreneurship and the Humanities: Innovation, Public Engagement, and Social Change. (3 h)**

Introduction to the role played by the humanities in social entrepreneurship, exploring the premise that norms can be developed for the application of the humanities, and that the knowledge derived in this process can empower and be a tool in community-based engagement and social change. Course includes a social entrepreneurial project in the local community. Also listed as ENT 321.

**HMN 365. Humanity and Nature. (1.5, 3 h)**

Examines the relationships between different social groups and nature from a variety of perspectives: philosophical, scientific, religious, political, legal, and aesthetic with a focus on how various humanistic perspectives articulate a sustainable and viable relationship with nature. The class engages religious, classical, and philosophical texts; visual art; discussions of ecology and human responsibility.

**HMN 370. Medicine and the Humanities. (3 h)**

Explores ideas and questions at the intersection of medical science and the humanities. Topics include the expression of disease in literature and art; the ethics of genetics research; the interplay of religion and medicine; the economics of health care; and the interplay between medical research and care and issues of race, gender, sexuality, colonialism, and disability.

**HMN 374. Humanities and Law. (3 h)**

Examines the common roots of law, philosophy, literature, and politics. Focuses on the interpretative strategies and critical skills that legal professionals, humanists, and artists share.

**HMN 375. Urban Design and the Human Experience. (3 h)**

A study of the role that urban design and planning play in shaping the urban experience, and the impact of design choices on the evolution of the cities and their possible futures. The course will explore human potential and expression in the built environment, drawing from literary and non-fictional accounts of life in cities. Observations and design exercises in local neighborhood and community spaces will serve as a basis for understanding the role of place in urban culture and its ability to shape the human experience. (CD)

**HMN 385. Special Topics. (1-3 h)**

Selected themes and approaches to the study of human culture that bridge disciplinary and/or national boundaries. Can be repeated for credit.

**HMN 389. Directed Reading and Research. (1.5 h)**

A research project in the humanities that pursues a topic studied in one of the courses of the minor and a synthesis of views from a least two traditional disciplines.

**HMN 390. Directed Writing. (1.5 h)**

Capstone project in the minor. P - HMN 389.

## Interdisciplinary Studies (IND)

**IND 399. Senior Project. (3 h)**

An independent project carried out under the supervision of a faculty member. (Required for all IND Majors) P - POI.

## International Studies (INS)

**INS 101. Overseas Study. (1-3 h)**

Directed reading and/or field work as part of an approved overseas program under the supervision of a professor, instructor, or the program director/coordinator or the Center for Global Programs and Studies. P-POI.

**INS 105. City as Text. (1-3 h)**

Introduction to the historical, cultural, and physical geography of the host city for Wake Forest study abroad programs. Participants travel throughout the city visiting plazas, neighborhoods, museums and other points of interest. Specific attention is given to areas of artistic, architectural, cultural, and historical significance. Students maintain journals and complete reflection papers. Only offered at Wake Forest study abroad locations.

**INS 120. Language and Culture Study. (1-3 h)**

Provides communicative and cultural training to students studying on Wake Forest study abroad programs in locations where the languages of the host country is not currently taught at Wake Forest. Course intended to ensure students are not linguistically isolated while abroad; prepares students to interact with locals and increase their ability to reflect on the cross-cultural experience of living in the host country. Topics include explorations of language, culture, art, history, film, and current events. Only offered at Wake Forest study abroad locations.

**INS 130. Global Village Living and Learning Community. (1-3 h)**

This interdisciplinary course is designed to create discussion around global issues and global citizenship for residents of the Global Village Living and Learning Community. Students are exposed to a variety of ways to view global citizenship through five global competencies - expression, engagement, discourse, inquiry, and connections. This class is designed to be taken twice, once in the Fall semester and once in Spring semester.

**INS 140. United Nations/Model United Nations. (1.5 h)**

Exploration of the history, structure, and functions of the United Nations including current economic, social, and political issues. An in-depth analysis of one country in the UN and attendance at the Model UN Conference. May be taken twice for credit. Pass/Fail only.

**INS 150. Preparing for Cross-Cultural Engagement Abroad. (1 h)**

Introduces students to theoretically-based issues and skills needed for understanding and interacting with people in other cultures. Taken in the semester before the student studies abroad. Pass/Fail only. P- POI.

**INS 151. Cross-Cultural Engagement Abroad. (1 h)**

Gives students the opportunity to apply knowledge and skills gained from INS 150 to develop a better understanding of cultural variables such as value orientations, communication styles, and nonverbal communication. Taken while the student is abroad. Pass/Fail only. P-POI.

**INS 152. Cross-Cultural Engagement and Re-entry. (1 h)**

Students reflect on their experience abroad and the cultural learning that occurred there. They also develop strategies for dealing with re-entry and applying the lessons learned now and in the future. Taken in the semester after the student has studied abroad. Pass/ Fail only. P-POI.

**INS 153. Intro US and Univ Culture. (1-3 h)**

This course provides students with a better understanding of the framework and cultural milieu of life in the U.S. and at U.S. universities in order to help them make sense of the cultural differences they (will) encounter in academics, customs, politics, media, and sports, among others. Taken by international students prior to or during their first semester at Wake Forest. Pass/Fail only.

**INS 154. Community Based Global Learning. (0-3 h)**

Focuses on understanding community based global service engagement in a global context. Students explore the history of service, charity, and ethical service around the world. Using case studies, students consider the role of volunteers as effective global change agents, causes of and barriers to success for global service providers, and the structure and operation of international nonprofit organizations. The course introduces students to theoretically-based issues and skills needed for understanding and interacting with people from cultures different from their own.

**INS 170. Special Topics. (0-3 h)**

Topics that are not covered in other international studies courses. May be repeated for up to six hours if the topic changes.

**INS 228. Individual Study. (1-3 h)**

Intensive research leading to the completion of an individual project conducted under the supervision of a faculty member. Students are responsible for initiating the project and securing permission of an appropriate faculty member. P-POI.

**INS 229. Internship in International Studies. (1-3 h)**

Field work directly related to international issues in a public or private setting under the supervision of a faculty member. Related readings and an analytical paper are minimum requirements. Students are responsible for initiating the project and securing the permission of an appropriate instructor. P-POI.

**INS 250. Introduction to International Studies. (3 h)**

An overview of key themes related to the study of international issues. Topics include but are not limited to migration, urbanization, economic development, trade, foreign aid, nationalism and identity, consumerism, gender and culture. (CD)

**INS 260. Seminar in Global Trade and Commerce Studies. (3 h)**

Provides integrative knowledge in global trade and commerce. Focuses on understanding the global environment and the variety of issues associated with global trade and commerce.

**INS 349. Japanese and American Culture: Cross-Cultural Communication. (3 h)**

An exploration of communication differences between the Japanese and the Americans. Japanese and American values, behavior, and beliefs will be compared in determining effective methods for cross-cultural communication. Special emphasis will be placed on examining factors leading to miscommunication and the development of techniques for overcoming cultural barriers. Credit not given for both INS 349 and COM 351A. Also listed as COM 351A. (CD)

**INS 363. Global Capitalism. (3 h)**

An analysis of changing patterns of industrial organization, market, and labor relations, and institutional frameworks that have resulted from the growth of an integrated global capitalist economy. Also listed as SOC 363.

**INS 365. Technology, Culture, and Change. (3 h)**

Examines the interrelated forces that shape change in organizations and societies; from the emergence of capitalist markets to the systems, controls, and information revolution of the 21st century. Also listed as SOC 365.

## Italian (ITA)

**ITA 111. Elementary Italian I. (3 h)**

Beginners course covering grammar essentials and emphasizing speaking, writing, and the reading of elementary texts. Lab required. ITA 111 and 112 count for students in the Venice program.

**ITA 112. Elementary Italian II. (3 h)**

Beginners course covering grammar essentials and emphasizing speaking, writing, and the reading of elementary texts. Lab required. ITA 111 and 112 count for students in the Venice program.

**ITA 113. Intensive Elementary Italian. (4 h)**

Intensive course for beginners, emphasizing the structure of the language and oral practice. Recommended for students in the Venice program and for language minors. Credit not given for both ITA 113 and ITA 111 or 112. Lab required. Lecture. By placement or faculty recommendation.

**ITA 153. Intermediate Italian. (4 h)**

Continuation of ITA 113, with emphasis on speaking, developing students' reading, writing skills and preparing them for oral and written discussion of literary texts in ITA 212 or 213. Lab required. P-ITA 112 or 113.

**ITA 154. Intermediate Italian. (3 h)**

An intermediate-level course intended for students who have taken the 111-112 sequence. It offers the opportunity to develop further their reading, writing and conversation skills and prepare for oral and written discussion of literary texts in ITA 212 or 213. Lab required. P-ITA 111-112.

**ITA 196. Italian Across the Curriculum. (1.5 h)**

Coursework in Italian done as an adjunct to specially-designated courses throughout the College curriculum. May be taken for grade of Pass/Fail. P-POI.

**ITA 197. Italian for Reading Knowledge. (1.5 h)**

Review of essential Italian grammar, usage, vocabulary, and processing strategies for reading various types of literary, social science, and technical publications for content. Designed for students interested mainly in strengthening reading proficiency in the language and aimed at preparing students to take the graduate reading exam administered at the end of the course. Undergraduate credit given. Offered in the first half of the semester. P-Intermediate Italian or equivalent and placement exam.

**ITA 212. Exploring the Italian World. (3 h)**

Continued language study through exploration of significant cultural expression from the multifaceted Italian world. Credit not given for both ITA 212 and 213. P - ITA 153 or equivalent.

**ITA 213. Introduction to Italian Literature. (3 h)**

Reading of selected texts in Italian. Satisfies basic requirement in foreign language. Students cannot receive credit for both ITA 212 and 213. P-ITA 153 or equivalent.

**ITA 217. Studies of Italy. (3 h)**

Survey course on Italian literature from authors from the various regions of Italy and on special cultural themes such as Italian immigration and new immigrations in Italy to give to students in Venice a deeper and broader understanding of Italian cultural complexity. Only taught in Venice. P - ITA 212 or 213 or POI.

**ITA 260. Contemporary Italy. (3 h)**

Study of society and culture in contemporary Italy. Offers elements of civilization, arts, gender, politics, literature and cinema and includes Italian-American studies. Intended for students interested in continuing Italian beyond the language requirement. P-ITA 212, 213 or POI.

**ITA 280. Business Italian. (3 h)**

Development of vocabulary and communication skills necessary to operate in Italian business settings. Emphasis on cross-cultural competency in the context of Italian business practices. P-ITA 212 or 213.

**ITA 319. Grammar and Composition. (3 h)**

Review of the basics of structure and vocabulary; detailed examination of syntax and idiomatic expressions; practice in translation of texts of diverse styles and from varied sources; and free composition. P-ITA 212, 213 or 216 or equivalent.

**ITA 324. Italian Regional Cultures. (3 h)**

Focuses on different aspects of regional cultures in Italy. Emphasizes local lifestyles, literatures, and cinematography. Regional cultures and historic background are analyzed and compared through class demonstrations and cultural artifacts. P - ITA 319 or POI.

**ITA 326. Comedy in Italian Cinema. (3 h)**

Study of modern Italian society through the analysis of films from the 1950s to the present. Taught in Italian. P - ITA 319 or POI.

**ITA 327. Modern Italian Cinema. (3 h)**

Study of the major developments of modern Italian cinema. Full-length feature films by Federico Fellini, Ettore Scola, Pier Paolo Pasolini, Bernardo Bertolucci, Marco Bellocchio, Gianni Amelio, Nanni Moretti, Gabriele Moretti Salvatores, Guiseppa Tornatore, Massimo Troisi, Roberto Benigni, and other Italian filmmakers will be studied and discussed from different perspectives. P - ITA 319 or POI.

**ITA 328. Dante's Divine Comedy. (3 h)**

Introduces Italian medieval literature and culture through a selected, critical reading of Dante's masterpiece and other medieval texts. Introduces students to the intellectual and social context of the Italian Middle Ages by relating the texts to the cultural, political, social, and philosophical concerns of the period. P - ITA 319 or POI.

**ITA 329. Love, Gender, and Diversity in Italian Epic. (3 h)**

The course focuses on spaces and modalities of representation of love, gender, and diversity in Italian epic through text and images, including films. P - ITA 319 or POI.

**ITA 333. Italian Theatre. (3 h)**

Study of representative Italian drama such as commedia dell'arte and works from Machiavelli, Goldoni, and Dario Fo. P - ITA 319 or POI.

**ITA 335. Italian Women Writers. (3 h)**

Study of representative novels by women writers from Italy and the Italian world, with emphasis on the historical novel within its cultural context. P - ITA 319 or POI.

**ITA 336. Italian Women and the City. (3 h)**

This course proposes, through Italian readings and films, the interpenetration of women's lives with the urban environment, both physical and imagined. It proposes to be a guide to mapping not only how city spaces shape or limit women's lives, but also how women participate in the construction or reconstruction of these spaces. P-ITA 319 or POI.

**ITA 338. South in Contemporary Italy. (3 h)**

Throughout centuries of struggles for nationhood, southern Italy as a society dealt with many obstacles: hastened modernization, regionalism and organized crime. This course examines southern Italy as a society through history, short novels, films, newspapers and academic articles within a national perspective. P-any 200-level course.

**ITA 340. Traveling with Muhammad and Dante. (3 h)**

Examines, in literary and visual forms, the Book of the Ladder of Muhammad and Dante's *Inferno* where the journeys of the two travelers into the afterlife are narrated. P-ITA 319 or POI .

**ITA 342. Boccaccio's Decameron or "Sex in the City": Rethinking Community in Medieval Florence. (3 h)**

Studies the impact of the plague that hit Europe in 1348 and the power of storytelling to rebuild the community. P - ITA 319 or POI.

**ITA 346. Narrating and Visualizing the Mediterranean in the Italian Trecento. (3 h)**

This course examines the representation of the Mediterranean through texts and images. P - ITA 319 or POI.

**ITA 375. Special Topics. (3 h)**

Selected special topics in Italian literature. P - ITA 319 or POI.

**ITA 381. Italian Independent Study. (1.5-3 h)**

May be repeated once for credit. P - POI.

## Japanese (JPN)

**JPN 101. First-year Japanese I. (4 h)**

Two-semester sequence designed to help students develop their ability to communicate in Japanese at the elementary level. Focuses on developing proficiency in listening, speaking, reading, and writing.

**JPN 102. First-year Japanese II. (4 h)**

Two-semester sequence designed to help students develop their ability to communicate in Japanese at the elementary level. Focuses on developing proficiency in listening, speaking, reading, and writing. P-JPN 101 or equivalent.

**JPN 153. Second-year Japanese I. (4 h)**

Two-semester sequence at the intermediate level. Continues to focus on developing proficiency in listening, speaking, reading, and writing. Expands students' ability to communicate with a broader range of vocabulary and grammar. P-JPN 102 or equivalent.

**JPN 201. Second-year Japanese II. (4 h)**

Two-semester sequence at the intermediate level. Continues to focus on developing proficiency in listening, speaking, reading, and writing. Expands students' ability to communicate with a broader range of vocabulary and grammar. P-JPN 153 or equivalent.

**JPN 220. Third-year Japanese I. (3 h)**

Two-semester sequence at the advanced level. Integrates conversation, discussion, presentation, reading, and writing skills with emphasis on written and audiovisual sources. P-JPN 201 or POI.

**JPN 230. Third-year Japanese II. (3 h)**

Two-semester sequence at the advanced level. Integrates conversation, discussion, presentation, reading, and writing skills with emphasis on written and audiovisual sources. P-JPN 220 or equivalent.

**JPN 231. Fourth-year Japanese I. (3 h)**

Advanced readings, discussion, presentations, and writing practice on topics in Japanese culture and society, using authentic stories, poetry, films, songs, websites, and other multimedia sources. P-JPN 230 or equivalent.

**JPN 250. Introduction to Literature Written in Japanese. (1-3 h)**

Develops students' productive skills at the discursive and rhetorical levels using authentic materials. Designed for students who have completed the cycle of Japanese courses at Wake Forest and/or through study abroad. P-JPN 231 or POI.

**JPN 290. Japanese Abroad. (3 h)**

Coursework in Japanese taken abroad. Not offered at the Wake Forest campus. May be repeated for credit with POI.



**JPN 291. Special Topics in Japanese. (3 h)**

Develops students' confidence and skills in handling topical issues in Japanese society and culture using authentic materials. P-JPN 230 or POI.

**JPN 296. Japanese across the Curriculum. (1 h)**

Coursework in Japanese done as an adjunct to specially-designated courses throughout the college curriculum. P-POI.

**JPN 299. Individual Study. (1-3 h)**

P-POI.

## Journalism (JOU)

**JOU 270. Introduction to Journalism. (3 h)**

Fundamentals of news reporting, news writing, and news judgment. Digital skills introduced and practiced. Intensive in-class writing.

**JOU 278. News Literacy. (3 h)**

Exploring the difference between news and propaganda, news and opinion, bias and fairness, citizen reporting and professional journalism with a goal of training more discriminating and thoughtful producers and consumers of news. Included: historical context of the news industry.

**JOU 310. Editing. (3 h)**

Fundamentals in copy editing and headline writing as it applies to print and online journalism. Applying grammar, adherence to Associated Press style, and use of photos, lay-out and news judgment to improve news and feature stories. Intensive in-class editing. P - JOU 270 or POI.

**JOU 315. Beat Reporting. (3 h)**

Fundamentals in identifying and developing news and feature beats. Emphasis on interviewing skills, source development, story identification and writing for print and online. Digital skills such as blogging, photography, video production, and social media practiced. Highly interactive. P - JOU 270.

**JOU 320. Community Journalism. (3 h)**

Produce stories in a range of media for an online publication with a growing readership about the people, places, and trends that create community in downtown Winston-Salem. Students will break news, explore the arts scene, tell stories about interesting people in town and practice journalism on the ground. P - JOU 270 or POI.

**JOU 325. Writing for a Social Purpose. (3 h)**

Combines writing, service learning, and entrepreneurship approaches in communication by partnering students with a local nonprofit organization to provide a range of writing solutions in print and online. Also listed as ENT 203. P - JOU 270 or POI.

**JOU 330. Podcasting. (3 h)**

Introduction to audio storytelling. As the world of podcasting and nonfiction audio grows rapidly, students will learn the building blocks and best practices of audio journalism, including sound editing, and interviewing, and story, and will discuss what journalism means in these changing times.

**JOU 335. Multimedia Storytelling. (3 h)**

Provides concepts and applied skills related to digital news production, digital research, use of search engine optimization and analytics, social media as a reporting and branding tool, navigating content management systems, visual storytelling and web publishing.

**JOU 340. Magazine Writing. (3 h)**

Analysis of magazine writing and long form journalism with practice pitching, reporting and writing articles in a range of styles and of varied lengths with specific audiences in mind. Also listed as WRI 344.

**JOU 345. Sports Journalism. (3 h)**

Introduction to the world of sports, the lives of athletes and the influence both have on American culture and college campuses. Students will keep a blog, conduct regular interviews, cover on- and off-campus sporting events, write opinion columns, produce multimedia stories and profile Wake Forest athletes. P - JOU 270 or POI.

**JOU 350. Writing for Public Relations and Advertising. (1.5, 3 h)**

Principles and techniques of public relations and applied advertising and marketing. Students use case studies to develop public relations and advertising strategies. Also listed as COM 117.

**JOU 355. Broadcast Journalism. (3 h)**

Introduces students to best practices in broadcast storytelling, including scripting, producing, filming, editing and anchoring a news broadcast. Also listed as COM 215.

**JOU 370. International Reporting. (3 h)**

Students explore a part of the world as journalists do, interviewing, observing, and exploring to produce stories that shed light on the people, culture, and issues that define that place. P - JOU 270 or POI.

**JOU 375. Special Topics in Journalism. (1-3 h)**

Study and practice of new trends, innovations and subject matters in journalism. May be repeated once for credit, provided the topic has changed. P - JOU 270 or POI.

**JOU 390. Internship. (1-3 h)**

Practical experience in journalism. Students work with a faculty adviser. Cannot be repeated except with approval of the director.

**JOU 395. Individual Study. (1-3 h)**

Independent study with faculty guidance. By prearrangement.

## Latin (LAT)

**LAT 111. Elementary Latin. (3 h)**

Introduction to the language; provides a foundation for reading in the ancient authors.

**LAT 112. Elementary Latin. (3 h)**

Introduction to the language; provides a foundation for reading in the ancient authors.

**LAT 113. Intensive Elementary Latin. (3 h)**

An introduction to the language; the course covers the material of LAT 111 and LAT 112 in one semester. Not open to students who have had LAT 111 or LAT 112.

**LAT 113L. Intensive Elementary Latin Lab. (2 h)**

Concentration on sight-reading and composition in Latin. Must be taken in the same semester as LAT 113.

**LAT 120. Reading Medieval Latin. (1.5-3 h)**

Introduction to post-classical Latin with readings in selected works from late antiquity and the middle ages. P-LAT 112 or equivalent.

**LAT 153. Intermediate Latin. (3 h)**

Review of grammar and selected introductory readings. P-LAT 112, 113 or equivalent.

**LAT 153L. Intermediate Latin Lab. (2 h)**

Concentration on sight-reading and composition in Latin. Must be taken in the same semester as LAT 153.

**LAT 211. Introduction to Latin Poetry. (3 h)**

Readings from selected poets mainly of the late Republic and early Empire, with an introduction to literary criticism. P-LAT 153 or equivalent.

**LAT 212. Introduction to Latin Prose. (3 h)**

Readings primarily from the works of Cicero, with attention to their artistry and historical context. P-LAT 153 or equivalent.

**LAT 316. Roman Lyric Poetry. (3 h)**

Interpretation and evaluation of lyric poetry through readings from the poems of Catullus and Horace. P-LAT 211 or 212, or equivalent.

**LAT 318. Roman Epic Poetry. (3 h)**

Reading in the epics of Virgil and Ovid, with attention to their position in the epic tradition. P-LAT 211 or 212, or equivalent.

**LAT 321. Roman Historians. (3 h)**

Readings in the works of Sallust, Livy, or Tacitus, with attention to the historical background and the norms of ancient historiography. P-LAT 211 or 212, or equivalent.

**LAT 325. Roman Epistolography. (3 h)**

Selected readings from the correspondence of Cecero and Pliny the Younger and the verse epistles of Horace and Ovid. P-LAT 211 or 212, or equivalent.

**LAT 326. Roman Comedy. (3 h)**

Readings of selected comedies of Plautus and Terence, with a study of the traditions of comedy and dramatic techniques. P-LAT 211 or 212, or equivalent.

**LAT 331. Roman Elegy. (3 h)**

Readings from the poems of Tibullus, Propertius, and Ovid, with study of the elegiac tradition. P-LAT 211 or 212, or equivalent.

**LAT 341. Roman Satire. (3 h)**

Selected readings from Horace, Lucilius, Persius, or Juvenal, with attention to the origin and development of hexameter satire. P-LAT 211 or 212, or equivalent.

**LAT 343. Latin Readings. (1.5, 3 h)**

Designed to meet individual need and interests. Course may be repeated for a total of six credit hours. P-POI.

**LAT 350. Advanced Grammar and Composition. (3 h)**

Intensive work in morphology and syntax, with practice in composition and stylistic analysis of selected readings. P-LAT 211 or 212, or equivalent.

**LAT 360. Seminar in Latin Poetry. (3 h)**

Advanced study in selected poets and genres. A research paper is required. P-LAT 211 or 212, or equivalent.

**LAT 380. Seminar in Latin Prose. (3 h)**

Advanced study in selected authors and topics. A research paper is required. P-LAT 211 or 212, or equivalent.

**LAT 391. Honors in Latin. (1.5 h)**

Directed research for the honors paper. P-POD.

**LAT 392. Honors in Latin. (1.5 h)**

Directed research for the honors paper. P-POD.

## Italian Language and Culture in English (IAS)

**IAS 210. Introduction to Italian Literature. (3 h)**

Italian literature through the centuries focusing on Italy's most significant contributions to Western literature and culture. Includes major works in poetry, theater, and novels that explore Italian historical, social, and cultural experiences and reflect on the process of literary creation. (D)

**IAS 212. Contemporary Italian Fiction. (3 h)**

Introduction to works of fiction in post-World War II Italy. Themes vary and may include historical trauma, the changing faces of Italy, and the role and forms of fiction in the contemporary world. (D)

**IAS 214. Italian Drama. (3 h)**

Survey of Italy's most influential contributions to the history of theater, ranging from Commedia dell'arte, Renaissance spectacle, and the bourgeois theater of Carlo Goldoni to the Nobel prize-winning 20th century playwrights Luigi Pirandello and Dario Fo. (D)

**IAS 220. Italian Women Writers. (3 h)**

Through readings, films, and documentaries, explores the foremost issues concerning contemporary women's writing in the Italian context — women's fight against marginalization and struggle for freedom, both economic and social, and the right to assert themselves. (D)

**IAS 310. Italian Historical Fiction. (3 h)**

Inquiry into Italian novels and stories blending fictional and historical elements. (D)

**IAS 325. Italian Neorealism in Films and Novels. (3 h)**

Study of important films, novels, and short stories of Italian Neorealism, including considerations of the history, philosophy, politics, artistic movements and civic renaissance of postwar Italian life that led to its development. (D)

**IAS 360. Dante. (3 h)**

Study of the Divina Commedia as epic, prophecy, autobiography, and poetry, relating it to antiquity, Christianity, Dante's European present, the birth new intellectual and poetic forms, and Dante's own afterlife in the West. (D)

**IAS 380. History of Italian Cinema. (3 h)**

Examines the cultural history and aesthetics of motion pictures through the works of significant Italian filmmakers and genres from silent era to the 21st century.

## Latin American Studies (LAS)

**LAS 210. Introduction to Latin-American and Latino Studies. (3 h)**

Introduces the historical, economic, cultural, and social issues which shape Latin America. (CD)

**LAS 220C. Afro-Cuban Cultural Expression. (3 h)**

A comprehensive study of Cuban culture with a concentration on the artistic manifestations of Afro-Cuban religions. Students study literature, art, film, music, and popular culture to analyze how Afro-Cuban culture constitutes national culture. Also listed as SPA 368. Offered in Havana. (CD)

**LAS 281. Contemporary Chile in Latin American Perspective. (3 h)**

Introduces the nature and content of contemporary Chilean politics by placing them in a wider analysis of Latin American politics, history, and society, and international relations. Normally offered in Chile unless otherwise noted.

**LAS 310. Special Topics in Latin American and Latino Studies. (3 h)**

Selected topics in Latin American and Latino studies; topics vary from year to year. (CD)

**LAS 380. Latin American and Latino Studies Honors Colloquium. (4 h)**

Honors capstone colloquium consisting of varied readings and an individual research project. Normally offered in Chile unless otherwise noted.

**LAS 388. Internship in Latin American and Latino Studies. (1-3 h)**

Internship course designed to meet the needs and interests of selected students, to be carried out under the supervision of a faculty member in the Latin American and Latino Studies minor. P - POI.

**LAS 398. Individual Study. (1-3 h)**

A reading or research course designed to meet the needs and interests of selected students, to be carried out under the supervision of a faculty member in the Latin American Studies minor. P-POI.

## Library Science (LIB)

**LIB 100. Academic Research and Information Issues. (1.5 h)**

An introduction to the research process and methods for finding, retrieving and evaluating information in an academic library and through online sources. Encourages the development of the skills, attitudes and abilities essential to the discovery of information and promotes an understanding of how scholarship is produced, valued, and shared. Explores the use of information in creating new knowledge and participating ethically in communities of learning.

**LIB 210. Social Sciences Research Sources and Strategies. (1.5 h)**

This half-semester course helps students develop as emerging social science scholars. Through exploring the sources and strategies used in social science research, students will explore interdisciplinarity; design an effective research process; investigate and critically evaluate sources; develop proficiency in APA style and citation management software; participate in scholarly conversations; and reflect on issues around information production, access, and authority. Must be sophomore or above to enroll.

**LIB 220. Science Research Sources and Strategies. (1.5 h)**

This half-semester course provides students with an understanding of the sources and strategies for doing research in the natural sciences as well as the ethical, legal, and socioeconomic factors that influence scientific information production and dissemination. P—Major or minor in science discipline or POI.

**LIB 230. Business and Accounting Research Sources and Strategies. (1.5 h)**

Provides students with an understanding of the sources and strategies necessary for doing research in business and accounting. Topics include strategies for developing research projects, resources available in each discipline, finding and evaluating sources and interpreting research results. P-Major in business or accounting. P-Major in business or accounting or POI.

**LIB 235. Research Methods for Entrepreneurs. (1.5 h)**

This course is intended for students pursuing a minor in entrepreneurship or starting their own entrepreneurial project. It will introduce them to research methods and resources appropriate for business planning, including subscription-based resources available through WFU as well as reliable free resources available from governments, public libraries and elsewhere. The class will learn how to assess a potential market during the exploratory phase all the way through evaluating competitors and industry trends for more fully-formed business concepts. Trends in information gathering and information use by entrepreneurs will also be discussed.

**LIB 240. History, Politics and Legal Research Sources and Strategies. (1.5 h)**

Provides students with an understanding of the sources and strategies necessary for doing research in history, political science and law. Topics include strategies for developing research projects, resources available in each discipline, finding and evaluating sources and interpreting research results. Must be sophomore or above to enroll.

**LIB 250. Humanities Research Sources and Strategies. (1.5 h)**

Provides students with an understanding of the sources and strategies necessary for doing research in the humanities (English, classics, humanities, religion, history, philosophy, foreign language, art, music, theatre, dance). Topics include strategies for developing research projects, resources available in each discipline, finding and evaluating sources and interpreting research results. Must be sophomore or above to enroll.

**LIB 260. History of the Book 1500-2000. (1.5 h)**

Introduces students to issues in the history of the book in the West, from early modern manuscript culture through the beginnings of the digital age. Using materials from ZSR Library's Rare Books Collection, students examine printed texts as objects of study in three major ways: as material artifacts, as vehicles for text, and as social constructs. Class assignments include a descriptive bibliography/research paper, in addition to hands-on typesetting, printing, and bookbinding projects. For more information contact the Special Collections Librarian, ZSR Library.

**LIB 290. Topics in Information. (1-3 h)**

Intensive look at one or more current topics in information. Course may be retaken for credit if topic varies.

## Linguistics (LIN)

**LIN 150. Introduction to Linguistics. (3 h)**

The social phenomenon of language: how it originated and developed, how it is learned and used, its relationship to other kinds of behavior; types of language (oral, written, signed) and language families; analysis of linguistic data; social issues of language use. Also listed as ANT 150. (CD)

**LIN 310. Sociolinguistics and Dialectology. (3 h)**

Study of variation in language: effects of regional background, social class, ethnic group, gender, and setting; social attitudes toward language; outcomes of linguistic conflicts in the community; evolution of research methods for investigating language differences and the diffusion of change. P- LIN 150/ANT 150 or POI.

**LIN 330. Introduction to Psycholinguistics and Language Acquisition. (3 h)**

A psychological and linguistic study of the mental processes underlying the acquisition and use of language; how children acquire the structure of language and how adults make use of linguistic systems.

**LIN 333. Language and Gender. (3 h)**

Uses an anthropological perspective to examine relationships between language structure, language use, persons, and social categories. Also listed ANT 333.

**LIN 337. TESOL Linguistics. (3 h)**

Introduces the theoretical and practical linguistics resources and skills for teaching English to speakers of other languages (TESOL) within the United States or abroad. Also listed as EDU 337. P-LIN 150/ANT 150 or ENG 304 or POI; knowledge of a second language is recommended.

**LIN 340. Special Topics in Linguistics. (3 h)**

Interdisciplinary study of selected topics, such as morphology, phonology/phonetics, syntax, historical linguistics, history of linguistic theory, semiotics, and ethnolinguistics, issues in Asian linguistics, language and gender. May be repeated for credit if topic varies. P-LIN 150/ANT 150 or POI.

**LIN 350. Language, Indigeneity and Globalization. (3 h)**

Taking a global case-study approach, this seminar explores the role language plays in contemporary identity formation and expression, from indigenous to transnational contexts. Addresses relationships among language and: colonialism, postcolonialism, nationalism, cultural revitalization, standardization, social and economic inequality, boundary formation, and processes of cultural inclusion and exclusion. Also listed as ANT 350. (CD)

**LIN 351. Comparative Communication. (1.5, 3 h)**

A comparison of communicative and linguistic processes in one or more national cultures with those of the United States. Also listed as COM 351. (CD)

**LIN 351A. Comparative Communication Japan. (1.5, 3 h)****LIN 351B. Comparative Communication Russia. (1.5, 3 h)****LIN 351C. Comparative Communication Great Britain. (1.5, 3 h)****LIN 351D. Comparative Communication Multiple Countries. (1.5, 3 h)****LIN 351E. Comparative Communication China. (1.5, 3 h)****LIN 352. Linguistics Cross-Cultural Communication. (3 h)**

Introduction to the nature of language, communication practices, nonverbal communication, and their cross-cultural variability. Teaches awareness of and respect for a range of culturally-specific communicative practices and provides analytic skills (linguistics, semiotic, and ethnographic) with which to recognize and assess such practices. This course differs from COM 350 (Intercultural Communication) in its greater emphasis on approaches from linguistics and anthropology. (CD)

**LIN 354. Field Methods in Linguistic Anthropology. (4 h)**

Trains students in basic skills of collecting and analyzing linguistic data at the levels of phonetics-phonology, grammar, lexico-semantics, discourse, and sociocultural context. Students will learn about the research questions that drive linguistic fieldwork as well as the relevant methods, tools and practical and ethical concerns. Also listed as ANT 354. P-ANT 150/LIN 150 or POI.

**LIN 355. Language and Culture. (3 h)**

Covers theoretical and methodological approaches to the study of language and culture, including: semiotics, structuralism, ethnoscience, the ethnography of communication, and sociolinguistics. Topics include: linguistic relativity; grammar and worldview; lexicon and thought; language use and social inequality; language and gender; and other areas. Also listed as ANT 355.

**LIN 375. Philosophy of Language. (3 h)**

A study of such philosophical issues about language as truth and meaning, reference and description, proper names, indexicals, modality, tense, the semantic paradoxes, and the differences between languages and other sorts of sign systems. Also listed as PHI 375. P-POI.

**LIN 380. Language Use and Technology. (3 h)**

Introduction to the fundamental concepts of creating and accessing large linguistic corpora (electronic collections of "real world" text) for linguistic inquiry. Course surveys a variety of cross-discipline efforts that employ corpus data for research and explores current applications. P-POI.

**LIN 383. Language Engineering: Localization and Terminology. (3 h)**

Introduction to the process of making a product linguistically and culturally appropriate to the target locale, and to computer-assisted terminology management. Surveys applications in translation technology. P-POI.

**LIN 398. Individual Study. (1-3 h)**

Designed to meet the needs of selected students, to be carried out under the supervision of a faculty member in the linguistics minor program. P-ANT 150/LIN 150 and POI.

**LIN 399. Individual Study. (1-3 h)**

Designed to meet the needs of selected students, to be carried out under the supervision of a faculty member in the linguistics minor program. P-ANT 150/LIN 150 and POI.

## Mathematics (MST)

**MST 105. Fundamentals of Algebra and Trigonometry. (1-3 h)**

A review of the essentials of algebra and trigonometry. Admission by permission only (generally, a student must have taken fewer than three years of high school mathematics to be eligible for admission). Not to be counted towards any major or minor offered by the department.

**MST 105L. Fundamentals of Algebra and Trigonometry Lab. (1-2 h)**

A review of the essentials of algebra and trigonometry in a guided laboratory setting. Admission by permission only. Not to be counted towards any major or minor offered by the department. Pass/Fail only.

**MST 107. Explorations in Mathematics. (4 h)**

An introduction to mathematical reasoning and problem solving. Topics vary by instructor and may include one or more of the following: knot theory, Euclidean and non-Euclidean geometry, set theory, cryptography, discrete models, number theory, discrete mathematics, chaos theory, probability, and MAPLE programming. Lab. (D, QR)

**MST 111. Calculus with Analytic Geometry I. (4 h)**

Functions, trigonometric functions, limits, continuity, differentiation, applications of derivatives, introduction to integration, the fundamental theorem of calculus. Lab. (D, QR)

**MST 112. Calculus with Analytic Geometry II. (4 h)**

Techniques of integration, indeterminate forms, improper integrals, transcendental functions, sequences, Taylor's formula, and infinite series, including power series. Lab. (D, QR)

**MST 113. Multivariable Calculus. (4 h)**

The calculus of vector functions, including geometry of Euclidean space, differentiation, extrema, line integrals, multiple integrals, and Green's, Stokes', and divergence theorems.9 Lab. (D, QR)

**MST 117. Discrete Mathematics. (4 h)**

Introduction to various topics in discrete mathematics applicable to computer science including sets, relations, Boolean algebra, propositional logic, functions, computability, proof techniques, graph theory, and elementary combinatorics. Lab. (D, QR)

**MST 121. Linear Algebra I. (4 h)**

Vectors and vector spaces, linear transformations and matrices, determinants, eigenvalues, and eigenvectors. Credit not allowed for both MST 121 and 205. Credit not allowed for both MST 121 and 206. Lab. (D, QR)

**MST 165. Problem-Solving Seminar. (1 h)**

Weekly seminar designed for students who wish to participate in mathematical competition such as the annual Putnam examination. Not to be counted toward any major or minor offered by the department. May be repeated for credit. Pass/Fail only.

**MST 205. Introduction to Linear Algebra and Differential Equations. (4 h)**

Specific topics covered include: vector algebra, solving linear systems of equations, rank, vector spaces, determinants, eigenvalues, linear transformations, first order differential equations, second order linear ordinary differential equations, and power series solutions to differential equations. Credit not allowed for both MST 205 and MST 251 or for both MST 205 and MST 121 or for both MST 205 and MST 206. P-MST 112 or POI.

**MST 206. Applied Matrix Algebra and Selected Topics. (2 h)**

Matrices, determinants, solutions of linear equations, special matrices, eigenvalues and eigenvectors of matrices. Additional topics will be covered as time permits. Not to be counted toward any major offered by the department except for the major in mathematical business. Credit not allowed for both MST 206 and 121. Credit not allowed for both MST 206 and 205. P-MST 111 or POI.

**MST 214. Multivariable Analysis. (3 h)**

Functions between Euclidean spaces, multivariable limits, differentiation, change of variables, line and surface integrals, vector fields, integration theorems for vector fields, Implicit & Inverse Function Theorems, Contraction Mapping Theorem, applications, other selected topics from analysis in multiple dimensions. P-MST 113 and MST 121, or MST 205.

**MST 225. Linear Algebra II. (3 h)**

A continuation of the study of linear algebra and its applications over the real and complex numbers. Topics may include the spectral theorem, quadratic forms, the singular value decomposition, Gershgorin's circle theorem, analytic functions of matrices, pseudoinverses, and other topics chosen by the instructor. P-MST 112 and 121 or POI.

**MST 243. Codes and Cryptography. (3 h)**

Essential concepts in coding theory and cryptography. Congruences, cryptosystems, public key, Huffman codes, information theory, and other coding methods. P - MST 117 or POI. (D)

**MST 251. Ordinary Differential Equations. (3 h)**

Linear equations with constant coefficients, linear equations with variable coefficients, and existence and uniqueness theorems for first order equations. Credit not allowed for both MST 251 and MST 205. P-MST 112 or POI. (D, QR)

**MST 253. Operations Research. (3 h)**

Mathematical models and optimization techniques. Studies in linear programming, simplex method, duality, sensitivity analysis, and other selected topics. P-MST 111 and MST 121, 205, or 206 or POI. (D, QR)

**MST 254. Optimization Theory. (3 h)**

Unconstrained and constrained optimization problems; Lagrange multiplier methods; second-order sufficient conditions; inequality constraints; and Karush-Kuhn-Tucker conditions. P - MST 113 and 121 or POI.

**MST 283. Topics in Mathematics. (1-3 h)**

Topics in mathematics not considered in regular courses or which continue study begun in regular courses. Content varies.

**MST 306. Advanced Mathematics for the Physical Sciences. (3 h)**

Advanced topics in linear algebra, special functions, integral transforms and partial differential equations. Not to be counted toward any major offered by the department except for the major in mathematical business. P - MST 205 or POI.

**MST 311. Introductory Real Analysis I. (3 h)**

Limits and continuity in metric spaces, sequences and series, differentiation and Riemann-Stieltjes integration, uniform convergence, power series and Fourier series, differentiation of vector functions, implicit and inverse function theorems. P - MST 117 or POI. (D)

**MST 312. Introductory Real Analysis II. (3 h)**

Limits and continuity in metric spaces, sequences and series, differentiation and Riemann-Stieltjes integration, uniform convergence, power series and Fourier series, differentiation of vector functions, implicit and inverse function theorems. P - MST 117 or POI. (D)

**MST 317. Complex Analysis I. (3 h)**

Analytic functions, Cauchy's theorem and its consequences, power series, and residue calculus. P - MST 113 or POI. (D)

**MST 321. Modern Algebra I. (3 h)**

Introduction to modern abstract algebra through the study of groups, rings, integral domains, and fields. P - MST 121 or POI. (D)

**MST 322. Modern Algebra II. (3 h)**

A continuation of modern abstract algebra through the study of additional properties of groups, rings, and fields. P - MST 117 and 321 or POI. (D)

**MST 324. Advanced Linear Algebra. (3 h)**

Thorough treatment of vector spaces and linear transformations over an arbitrary field, canonical forms, inner product spaces, and linear groups. P - MST 121 and 321 or POI. (D)

**MST 326. Numerical Linear Algebra. (3 h)**

Numerical methods for solving matrix and related problems in science and engineering using a high-level matrix-oriented language such as MATLAB. Topics will include systems of linear equations, least squares methods, and eigenvalue computations. Special emphasis given to applications. Also listed as CSC 352. P-MST 112 and MST 121, 205 or 206 or POI. (D)

**MST 331. Geometry. (3 h)**

An introduction to axiomatic geometry including a comparison of Euclidean and non-Euclidean geometries. P - MST 117 or POI. (D)

**MST 333. Introductory Topology. (3 h)**

Topics vary and may include knot theory, topological spaces, homomorphisms, classification of surfaces, manifolds, Euler characteristic, and the fundamental group. P - MST 117 or POI.

**MST 334. Differential Geometry. (3 h)**

Introduction to the theory of curves and surfaces in two and three dimensional space, including such topics as curvature, geodesics, and minimal surfaces. P - MST 113 or POI. (D)

**MST 345. Elementary Number Theory. (3 h)**

Properties of integers, congruences, and prime numbers, with additional topics chosen from arithmetic functions, primitive roots, quadratic residues, Pythagorean triples, and sums of squares. P-MST 117. (D)

**MST 346. Modern Number Theory. (3 h)**

A selection of number-theory topics of recent interest. Some examples include elliptic curves, partitions, modular forms, the Riemann zeta function, and algebraic number theory. P - MST 117. (D)

**MST 347. Graph Theory. (3 h)**

Paths, circuits, trees, planar graphs, spanning trees, graph coloring, perfect graphs, Ramsey theory, directed graphs, enumeration of graphs, and graph theoretic algorithms. P-MST 117 or POI. (D)

**MST 348. Combinatorial Analysis I. (3 h)**

Enumeration techniques, generating functions, recurrence formulas, the principle of inclusion and exclusion, Polya theory, graph theory, combinatorial algorithms, partially ordered sets, designs, Ramsey theory, symmetric functions, and Schur functions. P - MST 117 or POI. (D)

**MST 349. Combinatorial Analysis II. (3 h)**

Enumeration techniques, generating functions, recurrence formulas, the principle of inclusion and exclusion, Polya theory, graph theory, combinatorial algorithms, partially ordered sets, designs, Ramsey theory, symmetric functions, and Schur functions. P - MST 117 or POI. (D)

**MST 351. Introduction to Mathematical Modeling. (3 h)**

Introduction to the mathematical modeling, analysis and simulation of continuous processes using MATLAB, Mathematics or Maple. Topics include dimensional analysis, stability analysis, bifurcation theory, one-dimensional flows, phase plane analysis, index theory, limit cycles, chaotic dynamics, hyperbolic conservation laws and traveling waves. P-MST 121 and 251 or POI.

**MST 352. Partial Differential Equations. (3 h)**

A detailed study of partial differential equations, including the heat, wave, and Laplace equations, using methods such as separation of variables, characteristics, Green's functions, and the maximum principle. P - MST 113 and 251 or POI. (D)

**MST 353. Probability Models. (3 h)**

Introduction to probability models, Markov chains, Poisson processes and Markov decision processes. Applications will emphasize problems in business and management science. Also listed as STA 353. P-MST 111 and MST 121 or 205 or 206, or POI. (D)

**MST 354. Discrete Dynamical Systems. (3 h)**

Introduction to the theory of discrete dynamical systems as applied to disciplines such as biology and economics. Includes methods for finding explicit solutions, equilibrium and stability analysis, phase plane analysis, analysis of Markov chains, and bifurcation theory. P - MST 112 and 121 or POI. (D)

**MST 355. Introduction to Numerical Methods. (3 h)**

Numerical computations on modern computer architectures; floating point arithmetic and round-off error. Programming in a scientific/engineering language such as MATLAB, C, or FORTRAN. Algorithms and computer techniques for the solution of problems such as roots of functions, approximation, integration, systems of linear equations and least squares methods. Also listed as CSC 355. P-MST 112 and MST 121, 205 or 206, or POI. (D)

**MST 357. Probability. (3 h)**

Probability distributions, mathematical expectation, and sampling distributions. MST 357 covers much of the material on the syllabus for the first Actuarial exam. Also listed as STA 310. P-MST 112 or 205 or POI. (D)

**MST 359. Networks: Models and Analysis. (3 h)**

A course in fundamental network theory concepts, including measures of network structure, community detection, clustering, and network modelling and inference. Topics also draw from recent advances in the analysis of networks and network data, as well as applications in economics, sociology, biology, computer science, and other areas. Also listed as STA 352. P-MST 117 or MST 121 or MST 205 or MST 206 and one course in STA at the 200 level or above. (D)

**MST 381. Individual Study. (1-3 h)**

A course of independent study directed by a faculty adviser. By prearrangement.

**MST 383. Advanced Topics in Mathematics. (1-3 h)**

Topics in mathematics not considered in regular courses or which continue study begun in regular courses. Content varies.

**MST 391. Senior Seminar Preparation. (1 h)**

Independent study or research directed by a faculty advisor by prearrangement with the adviser.

**MST 392. Senior Seminar Presentation. (1 h)**

Preparation of a paper, followed by a one-hour oral presentation based upon work in MST 391.

## Middle East & South Asia Studies (MES)

**MES 110. Introductory Topics in Middle East and South Asia Studies. (1-3 h)**

Introductory level course on selected topics in Middle East and South Asia Studies. May be repeated for credit if course content differs. (CD)

**MES 210. Intermediate Topics in Middle East and South Asia Studies. (1-3 h)**

Intermediate level course on selected topics in Middle East and South Asia Studies. May be repeated for credit if course content differs. (CD)

**MES 310. Advanced Topics in Middle East and South Asia Studies. (1-3 h)**

Advanced level course in selected topics in Middle East and South Asia Studies. May be repeated for credit if course content differs. (CD)

**MES 390. Individual Study. (1-3 h)**

Designed to meet the needs and interests of selected students who have declared the minor. Carried out under the supervision of a faculty member affiliated with the Middle East and South Asia Studies program. P-POI.

## Military Science (MIL)

**MIL 114. Leadership. (1.5 h)**

An examination of the fundamentals contributing to the development of a personal style of leadership with emphasis on the dimensions of junior executive management.

**MIL 117. Leadership Laboratory. (0 h)**

Basic military skills instruction designed to technically and tactically qualify the student for assumption of an officer leadership position at the small-unit level. Students learn the skills necessary to operate in a military environment and practical application of the basic leadership tenant. Focus is on teamwork, communication skills and application of basic military principles. Either Military Science 117 (fall) or 118 (spring) is required each semester for contracted AROTC cadets (including those conditionally contracted), advance designee scholarship winners.

**MIL 118. Leadership Laboratory. (0 h)**

Basic military skills instruction designed to technically and tactically qualify the student for assumption of an officer leadership position at the small-unit level. Students learn the skills necessary to operate in a military environment and practical application of the basic leadership tenant. Focus is on teamwork, communication skills and application of basic military principles. Either Military Science 117 (fall) or 118 (spring) is required each semester for contracted AROTC cadets (including those conditionally contracted), advance designee scholarship winners.

**MIL 119. Advanced Leadership Lab. (1 h)**

Focuses on practical application of time management, small unit organization, communication, and other leadership concepts learned in class to accomplish assigned missions. Laboratory sessions can be tactical (conducting a small unit mission) or managerial (solving an organizational problem). Grading is based on performance in leadership positions, teamwork, and application of principles from class instruction. MIL 227 and 228 cadets are required to plan training scenarios conducted at lab, supervise sessions, and build teams and future leaders through assessment and feedback. MIL 225 and 226 cadets will conduct training and be evaluated on their application of tactical and managerial skills learned in military science classes to solve problems or complete tactical missions. MIL 119 and 120 may be repeated once for credit.

**MIL 120. Advanced Leadership Lab. (1 h)**

Focuses on practical application of time management, small unit organization, communication, and other leadership concepts learned in class to accomplish assigned missions. Laboratory sessions can be tactical (conducting a small unit mission) or managerial (solving an organizational problem). Grading is based on performance in leadership positions, teamwork, and application of principles from class instruction. MIL 227 and 228 cadets are required to plan training scenarios conducted at lab, supervise sessions, and build teams and future leaders through assessment and feedback. MIL 225 and 226 cadets will conduct training and be evaluated on their application of tactical and managerial skills learned in military science classes to solve problems or complete tactical missions. MIL 119 and 120 may be repeated once for credit.

**MIL 121. Leadership and Personal Development (MSL 101). (3 h)**

Introduction to the skills critical for effective leadership included effective communication, teamwork, ethics, and cultural awareness. Cadets learn how the personal development of life skills such as critical thinking, goal setting, time management, physical fitness, and stress management relate to leadership, Officership, and the Army profession.

**MIL 122. Introduction to Tactical Leadership (MSL 102). (3 h)**

Introduction to army terms, philosophies, and basic leadership concepts. Builds individual skills and knowledge applicable to Army operations, both tactical and organizational, in order to develop students into exceptional leaders.

**MIL 123. Innovative Team Leadership (MSL 201). (3 h)**

Explores the dimensions of creative and innovative leadership strategies and styles by developing an understanding of team dynamics an assessment of personal leadership traits in order to develop team leadership capabilities. Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs.

**MIL 124. Foundations of Tactical Leadership (MSL 202). (3 h)**

Examines the challenges of leading tactical teams in the complex contemporary operating environment (COE). Highlights dimensions of terrain analysis, patrolling, and operation orders, cultural considerations, unit dynamics, interaction with the media and care for subordinate's physical and mental well-being. Places lessons learned from MIL 124 on the Army leadership framework and the dynamics of adaptive leadership in the context of military operations to prepare cadets for leadership roles as they enter the advanced courses.

**MIL 225. Adaptive Team Leadership (MSL 301). (3 h)**

Challenges cadets to study, practice, and evaluate adaptive leaderships skills as they are presented with challenging scenarios related to squad tactical operations. Cadets receive systematic and specific feedback on their leadership attributes and actions. Based on such feedback, as well as their own self-evaluations, cadets continue to develop their leadership and critical thinking abilities. The focus is developing cadets' tactical leadership abilities to enable them to succeed at ROTC's summer Advanced Camp. P - MIL 121 through MIL 124 (or equivalent credit as determined by the professor of military science).

**MIL 226. Leadership in Changing Environments (MSL 302). (3 h)**

Uses increasingly challenging leadership opportunities to build cadet confidence and skills in leading tactical and garrison operations up to platoon level. Cadets review aspects of the range of Army operations and specifics of different functional areas within the Army. They also conduct military briefings and develop proficiency in garrison operation orders. Focus is on exploring, evaluating, and developing skills in decision-making, persuading, and motivating team members in the contemporary operating environment. Cadets are evaluated on what they know and do as leaders as they prepare to attend the ROTC summer Advanced Camp. P - MIL 121 through MIL 225 (or equivalent credit as determined by the professor of military science)

**MIL 227. Adaptive Leadership (MSL 401). (3 h)**

This course transitions the focus of from being trained, mentored and evaluated as a cadet to learning how to train, mentor and evaluate underclass cadets. Cadets will learn the duties and responsibilities of an Army staff officer and apply the Military Decision Making Process, Army writing style and the Army's principles of training and training management. Cadets will learn about the special trust proposed by the U.S. Constitution to Army Officers- a trust above and beyond other professions. Cadets will learn Army values and ethics and how to apply them to everyday life as well as in the Contemporary Operating Environment. The cadets will learn about the officer's role in the Uniform Code of Military Justice, counseling subordinates, administrative actions and methods on how to best manage their career as an Army officer. P- MIL 121 through MIL 226 (or equivalent credit as determined by the professor of military science).

**MIL 228. Leadership in a Complex World (MSL 402). (3 h)**

Continuation of MIL 227 with emphasis on the transition from cadet to officer. Explores the dynamics of leading military operations in the complex environment facing military officers. Cadets examine differences in customs and courtesies, military law, principles of war, and Rules of Engagement in the face of international terrorism. They also explore aspects of interacting with non-government organizations, civilians on the battlefield, and host nation support. Cadets will gain a foundation of knowledge regarding government and military policy based on hands-on case study scenarios involving current and past events. P- MIL 121 through MIL 227 (or equivalent credit as determined by the professor of military science).

**MIL 229. American Military History. (3 h)**

The American military experience with emphasis on the ideas and activities contributing to the development of the United States' unique military establishment. Particular emphasis on civilian control of the military. Credit not allowed for both MIL 229 and HST 369. P - POI.

## Music (MUS)

### MUS 100. Music Recitals. (0 h)

Recitals, concerts, and guest lectures sponsored by the Department of Music and the Secret Artists Series. (Specific attendance requirements will be established at the beginning of each semester.) Four semesters are required of music majors; three semesters are required of music minors. Pass/Fail only.

### MUS 101. Introduction to Western Music. (3 h)

Basic theoretical concepts and musical terminology. Survey of musical styles, composers, and selected works from the Middle Ages through the present day. Satisfies the Division III requirement. May not count toward the majors or minor in music. (D)

### MUS 103. Music Production and Recording. (1.5 h)

Introduction to modern recording techniques with hands-on experience in a multi-track recording studio. Topics to be addressed include basic acoustics of music, microphone techniques, digital audio workstation operation, and basic production techniques.

### MUS 104. Basic Music Reading and Skills. (1.5 h)

A study of the fundamentals of music theory including key signatures, scales, intervals, chords, and basic sight-singing and ear-training skills. Designed for students wishing to participate in University ensembles and those wishing to pursue vocal, instrumental, and compositional instruction. May not count toward the majors or minor in music.

### MUS 106. Electronic Music Lab. (1.5 h)

Foundations of MIDI protocol, with particular attention to the study and application of sequencers, notational programs, and synthesizers. Development of skills in written notation through use of computerized programs. Taught in the Music Computer Lab. P-MUS 101, 104, or POI.

### MUS 108. Alexander Technique for Musical Performers. (0.5 h)

An educational process that uses verbal and tactile feedback to teach improved use of the student's body by identifying and changing poor and inefficient habits that cause stress, fatigue, and pain in the musical performer. This is a course designed to teach the performer to minimize physical effort and maximize expression. Meets two hours per week. Pass/Fail only.

### MUS 109. Introduction to the Music of World Cultures. (3 h)

Survey of music in selected societies around the world. Topics will be selected from the following areas of concentration: India, East Asia, sub-Saharan Africa, western Europe, Latin America, and vernacular music of the U.S. (including jazz). May not count toward the majors or minor in music. Meets concurrently with MUS 209. Credit cannot be received for both MUS 109 and 209. (CD, D)

### MUS 111. Opera Workshop. (1 h)

Study, staging, and performance of standard and contemporary operatic works. P-POI.

### MUS 112. Collegium Musicum Instrumental. (1 h)

An ensemble stressing the performance practices and the performance of music of the medieval, Renaissance, and Baroque eras.

### MUS 113. Orchestra. (1 h)

Study and performance of orchestral works from the classical and contemporary repertoire. P-Audition.

### MUS 114. Collegium Musicum Vocal. (1 h)

An ensemble stressing the performance practices and the performance of music of the medieval, Renaissance, and Baroque eras. P-Audition.

### MUS 115. Concert Choir. (1 h)

Select large mixed ensemble which travels internationally and performs the significant choral literature from the past five centuries. P-Audition.

### MUS 116. Chamber Choir. (1 h)

Select small mixed ensemble which performs repertoire from classical choral genres, musical theatre, vocal jazz, and a cappella. P-audition.

### MUS 117. Gamelan Ensemble. (1 h)

Cultural study and performance of traditional and new compositions for Balinese gamelan (percussion orchestra) and Balinese dance.

### MUS 118. Wind Ensemble. (1 h)

Study and performance of music for mixed ensemble of winds, brass, and percussion. P-Audition.

### MUS 119. Symphonic Band. (1 h)

Study and performance of music for symphonic band. Performs on campus.

### MUS 120. Chamber Music. (1 h)

Study and performance of chamber music. Performers are strongly urged to participate in a larger ensemble as well. P-POI.

### MUS 120A. Chamber Music-Percussion. (1 h)

### MUS 120B. Chamber Music-String. (1 h)

### MUS 120C. Chamber Music-Brass. (1 h)

### MUS 120D. Chamber Music-Woodwind. (1 h)

### MUS 120E. Chamber Music-Mixed. (1 h)

### MUS 120F. Chamber Music-Clarinet. (1 h)

### MUS 120G. Chamber Music-Saxophone. (1 h)

### MUS 120H. Chamber Music-Guitar. (1 h)

### MUS 120I. Chamber Music-Keyboard. (1 h)

### MUS 121. Jazz Ensemble. (1 h)

Study and performance of written and improvised jazz for big band and combo ensembles.

### MUS 122. Music Theatre Practicum. (1 h)

For musicians who perform in a departmentally-sponsored theatrical production (when their performance is not as a member of a departmental ensemble). May not be counted toward the majors or minor in music. Credit may be earned in a given semester for either MUS 122 or THE 283, but not both. Course may be repeated for no more than four hours. Pass/Fail only. P-POI.

### MUS 123. Woodwind Doubling. (1 h)

Practical skills for woodwind instrumentalists who participate in musical theatre productions for which expertise on more than one instrument is required.

### MUS 124. Small Ensemble. (1 h)

Study and performance of conducted works for small ensemble. Performers are strongly urged to participate in a larger ensemble as well. P-POI.



**MUS 124A. Small Ensemble: Percussion Ensemble. (1 h)****MUS 124B. Small Ensemble: Flute Choir. (1 h)****MUS 124C. Small Ensemble: Clarinet Choir. (1 h)****MUS 124D. Small Ensemble: Saxophone Ensemble. (1 h)****MUS 124E. Small Ensemble: Brass Choir. (1 h)****MUS 124F. Small Ensemble: Vocal Ensemble. (1 h)****MUS 124G. Small Ensemble: Mixed Ensemble. (1 h)****MUS 125. Music and Public Engagement. (0.5 h)**

Opportunities for students taking performance study or ensemble to perform in the community, under the supervision of the instructor of the performance study or ensemble. Students attend a required training session and generate on-site performances. If performing for special-needs audiences, students attend an additional required training session, a journal, log, and 15 contact hours of training, travel, and on-site performances. Pass/Fail only. May be repeated. C-Any course listed under "Ensemble" or "Performance Study", and POI.

**MUS 126. Afro-Cuban Drumming. (1 h)**

Exploration of the music and history of West African drumming through hands-on experience. Students learn to play jembe, dunun, shekere, iron bell, and their New World descendants, the conga drum, bongo, claves, maracas, and agogo bells.

**MUS 127. Chinese Ensemble. (1 h)**

Performance of traditional and new Chinese music compositions. Experience on Chinese traditional instruments (dizi, erhu, guzheng, pipa, ruan, percussion, etc.) preferred, but instrumentalists and vocalists of all traditions welcome.

**MUS 128. Athletic Band I. (1 h)**

Performs at most football games, as well as men's and women's home basketball games. Meets twice weekly. Regular performances on and off campus. Offered in fall.

**MUS 129. Athletic Band II. (0.5 h)**

Performs at men's and women's home basketball games, and at the spring football game. Meets from the beginning of the semester to spring break. Offered in spring. P-MUS 128 or POI.

**MUS 131. World of Musical Instruments. (3 h)**

Historical survey of musical instruments by families. Instruments of Western art music, selected world cultures, and vernacular music of the United States, as well as electronic instruments. Emphasis on the cultural, sociological, and technological as well as the musical aspects of instruments. Meets concurrently with MUS 231. Credit cannot be received for both MUS 131 and 231. (D)

**MUS 132. Introduction to Beethoven. (3 h)**

Introduction to the life and works of Ludwig van Beethoven. May not count toward the majors or minor in music. Meets concurrently with MUS 232. (D)

**MUS 134. Music of Asia. (3 h)**

Survey of classical, vernacular, and popular musical traditions in selected Asian cultures, focusing on India, China, Japan, Korea, and Southeast Asia. The course will also examine the influence of Asian and Western philosophy and musical aesthetics on the development of the music, theater, and dance of Asia. Meets concurrently with MUS 234. Students may not receive credit for both MUS 134 and 234. (CD, D)

**MUS 140. Introduction to Modern Popular Music. (3 h)**

A survey of the history of popular music focusing on the United States from 1955-present that examines influential music genres and individual artists as well as situating their repertoires within sociocultural, political, economic, and technological contexts. May not count toward the major or minor in music. Meets concurrently with MUS 240. Credit cannot be received for both MUS 140 and 240. (CD, D)

**MUS 161. Individual Instruction. (0.5 h)**

Technical studies and repertoire of progressive difficulty selected to meet the needs and abilities of the student. One half-hour lesson per week. (See the fee section of this bulletin for specific information regarding additional costs.) Does not fulfill the individual instruction requirements for the major in music performance. May be repeated for credit. P-POI.

**MUS 161A. Individual Instruction: Violin. (0.5 h)****MUS 161AA. Individual Instruction: Carillon. (0.5 h)****MUS 161B. Individual Instruction: Viola. (0.5 h)****MUS 161C. Individual Instruction: Cello. (0.5 h)****MUS 161D. Individual Instruction: Bass. (0.5 h)****MUS 161E. Individual Instruction: Flute. (0.5 h)****MUS 161F. Individual Instruction: Oboe. (0.5 h)****MUS 161G. Individual Instruction: Clarinet. (0.5 h)****MUS 161H. Individual Instruction: Bassoon. (0.5 h)****MUS 161I. Individual Instruction: Saxophone. (0.5 h)****MUS 161J. Individual Instruction: Trumpet. (0.5 h)****MUS 161JI. Individual Instruction: Jazz Saxophone. (0.5 h)****MUS 161JJ. Individual Instruction: Jazz Trumpet. (0.5 h)****MUS 161JP. Individual Instruction: Jazz Piano. (0.5 h)****MUS 161JR. Individual Instruction: Jazz Guitar. (0.5 h)****MUS 161K. Individual Instruction: French Horn. (0.5 h)****MUS 161L. Individual Instruction: Trombone. (0.5 h)****MUS 161M. Individual Instruction: Baritone. (0.5 h)****MUS 161N. Individual Instruction: Tuba. (0.5 h)****MUS 161O. Individual Instruction: Organ. (0.5 h)****MUS 161P. Individual Instruction: Piano. (0.5 h)****MUS 161Q. Individual Instruction: Percussion. (0.5 h)****MUS 161R. Individual Instruction: Guitar. (0.5 h)****MUS 161S. Individual Instruction: Harp. (0.5 h)****MUS 161T. Individual Instruction: Electric Bass. (0.5 h)****MUS 161U. Individual Instruction: Accompanying. (0.5 h)****MUS 161V. Individual Instruction: Voice. (0.5 h)****MUS 161W. Individual Instruction: Recorder. (0.5 h)****MUS 161X. Individual Instruction: Viola da Gamba. (0.5 h)****MUS 161Y. Individual Instruction: Harpsichord. (0.5 h)****MUS 161Z. Individual Instruction: Jazz Improvisation. (0.5 h)****MUS 162. Individual Instruction. (1 h)**

One one-hour lesson per week. (See the fee section of this bulletin for specific information regarding additional costs.) Does not fulfill the individual instruction requirements for the major in music performance. May be repeated for credit. P-POI.

**MUS 162A. Individual Instruction: Violin. (1 h)**

**MUS 162AA. Individual Instruction: Carillon. (1 h)**

**MUS 162B. Individual Instruction: Viola. (1 h)**

**MUS 162C. Individual Instruction: Cello. (1 h)**

**MUS 162D. Individual Instruction: Bass. (1 h)**

**MUS 162E. Individual Instruction: Flute. (1 h)**

**MUS 162F. Individual Instruction: Oboe. (1 h)**

**MUS 162G. Individual Instruction: Clarinet. (1 h)**

**MUS 162H. Individual Instruction: Bassoon. (1 h)**

**MUS 162I. Individual Instruction: Saxophone. (1 h)**

**MUS 162J. Individual Instruction: Trumpet. (1 h)**

**MUS 162JI. Individual Instruction: Jazz Saxophone. (1 h)**

**MUS 162JJ. Individual Instruction: Jazz Trumpet. (1 h)**

**MUS 162JK. Indiv Instr - Jazz Trumpet. (1 h)**

**MUS 162JP. Individual Instruction: Jazz Piano. (1 h)**

**MUS 162JR. Individual Instruction: Jazz Guitar. (1 h)**

**MUS 162K. Individual Instruction: French Horn. (1 h)**

**MUS 162L. Individual Instruction: Trombone. (1 h)**

**MUS 162M. Individual Instruction: Baritone. (1 h)**

**MUS 162N. Individual Instruction: Tuba. (1 h)**

**MUS 162O. Individual Instruction: Organ. (1 h)**

**MUS 162P. Individual Instruction: Piano. (1 h)**

**MUS 162Q. Individual Instruction: Percussion. (1 h)**

**MUS 162R. Individual Instruction: Guitar. (1 h)**

**MUS 162S. Individual Instruction: Harp. (1 h)**

**MUS 162T. Individual Instruction: Electric Bass. (1 h)**

**MUS 162U. Individual Instruction: Accompanying. (1 h)**

**MUS 162V. Individual Instruction: Voice. (1 h)**

**MUS 162W. Individual Instruction: Recorder. (1 h)**

**MUS 162X. Individual Instruction: Viola da Gamba. (1 h)**

**MUS 162Y. Individual Instruction: Harpsichord. (1 h)**

**MUS 162Z. Individual Instruction: Jazz Improvisation. (1 h)**

**MUS 165J. Brass Rudiments. (0.5 h)**  
Introduction to the fundamentals of playing brass instruments. Designed for students with musical experience as well as beginners with no prior musical training. Offered in spring. P-POI.

**MUS 165Q. Class Percussion. (0.5 h)**  
Introduction to the fundamentals of playing percussion instruments. Includes an introduction to reading music as well as basic techniques on instruments of the percussion family. P-POI.

**MUS 165R. Class Guitar I. (0.5 h)**  
For beginner students. Introduction to finger style guitar techniques: strumming, plucking, arpeggios, and damping. Reading and playing from musical notation. Nylon string guitar is required.

**MUS 165V. Class Voice I. (0.5 h)**  
Introduction to the fundamental principles of singing, concepts of breath control, tone, and resonance. P-POI.

**MUS 166R. Class Guitar II. (0.5 h)**  
Continuation of finger style guitar techniques with emphasis on chordal progressions, scales, accompanying patterns, and sight-reading. Nylon string guitar required. P-MUS 165R.

**MUS 166V. Class Voice II. (0.5 h)**  
Continuation of fundamental vocal techniques. P-MUS 165V or POI.

**MUS 167V. Theatrical Singing I: Class Voice. (0.5 h)**  
Basic techniques of singing, breath control, phonation, and resonance, with emphasis on theatrical projection. Study and performance of musical theater repertoire. One hour per week. P-POI.

**MUS 168V. Theatrical Singing II: Class Voice. (0.5 h)**  
Continuation of theatrical singing techniques with increased study and performance of musical theater repertoire. One hour per week. P-MUS 167V or POI.

**MUS 171. Music Theory I. (4 h)**  
Music fundamentals (key signatures, scales, modes, intervals, chords), simple part-writing, sight-singing, dictation and keyboard harmony. Prerequisite for the audition in music performance. Designed for music majors and minors. Offered in fall. (D)

**MUS 172. Music Theory II. (4 h)**  
Seventh chords, secondary chords, altered chords, part-writing, basic counterpoint, basic musical forms, sight-singing, dictation and keyboard harmony. Offered in spring. P-MUS 171.

**MUS 173. Music Theory III. (4 h)**  
Altered chords, continuation of part-writing, 18th- and 19th-century forms, ear training, sight-singing, dictation, rhythmic skills, and keyboard harmony. Offered in fall. P-MUS 172.

**MUS 174. Music Theory IV. (4 h)**  
Expanded harmony and techniques from Impressionism to the present. New concepts of style and form. Ear training, sight-singing, dictation, rhythmic skills, and keyboard harmony. Offered in spring. P-MUS 173.

**MUS 175V. Advanced Voice Class. (1 h)**  
Development of advanced vocal technique and repertoire. Limited to eight students. Two hours per week; may be repeated. P-MUS 166V or POI.

**MUS 177V. Advanced Theatrical Singing. (1 h)**  
Development of advanced theatrical singing technique and performance of musical theater repertoire. Limited to eight students. Two hours per week; may be repeated. P-MUS 168V or POI.

**MUS 178. Class Piano I. (1 h)**  
Class piano for beginners. Pentascales in all keys, all major and minor chords, arpeggios, improvisation, technique, introduction to music notation through playing pieces in various styles appropriate to the beginning level.

**MUS 179. Class Piano II. (1 h)**  
Continuation of foundational principles. Early intermediate repertoire, scales hands together, principles of fingering, musical approach to learning, chords, arpeggios and ensemble duets. P-MUS 178 or POI.

**MUS 181. Music History I. (3 h)**  
History of western art music from the ancient Greeks to 1750. It is recommended that students take MUS 171 before enrolling in MUS 181. Reading knowledge of music is essential. Offered in fall. P-MUS 171 or POI. (D)

**MUS 182. Music History II. (3 h)**  
History of western art music from 1750 to World War I. It is recommended that students take MUS 171 before enrolling in MUS 182. Reading knowledge of music is essential. Offered in spring. P-MUS 171 or POI. (D)

**MUS 183. Music History III. (3 h)**

History of western art music from the beginning of the 20th century to the present day and its associations with other cultures and disciplines. Reading knowledge of music is essential. Offered in fall. P-MUS 171 or POI. (D)

**MUS 190. Diction for Singers. (1.5 h)**

Study of articulation in singing, with emphasis on modification of English; pronunciation of Italian, German, and French. Development of articulatory and aural skills with use of the international phonetic alphabet. Individual performance and coaching in class. (Two hours per week.) May not be repeated for credit.

**MUS 203. Jazz. (3 h)**

Survey of American jazz from its origin to the present. P- POI. (CD, D)

**MUS 205. History of American Music Theatre. (3 h)**

Survey of the American musical from its origins to the present. P-POI. (CD, D)

**MUS 207. American Music. (3 h)**

A study of the musical sources of American culture and the six streams of music in the United States: folk and ethnic musics, offsprings of the rural South (country music, blues, rock), jazz and its forerunners, popular sacred music, popular secular music, and art music. (CD, D)

**MUS 208. Women and Music. (3 h)**

Historical overview of women musicians in society. (CD, D)

**MUS 209. Music of World Cultures. (3 h)**

Survey of music in selected societies around the world. Topics will be selected from the following areas of concentration: India, East Asia, sub-Saharan Africa, Western Europe, Latin America, and vernacular music of the United States (including jazz). Students complete a project or projects on the technical or theoretical aspects of the music of world cultures. Designed for music majors and minors in cultural resource preservation. Meets concurrently with MUS 109. Credit cannot be received for both MUS 109 and 209. P-MUS 172 or POI. (CD, D)

**MUS 210. Survey of Latin American Music. (3 h)**

A survey of art, folk, and popular musical styles in Latin America and their impact on music of other cultures. Divided into three areas of study: the Caribbean, Central America, and South America. (CD, D)

**MUS 212. Music in the Church. (3 h)**

Function of church musicians and the relationship of their work to the church program. Offers to musician and non-musician alike historical overview, hymnody survey and other church music-related topics through class and guest lectures and practical seminars. P-POI.

**MUS 214. Music of Italy. (3 h)**

Study of art music composed in Italy, with special emphasis on composers associated with Venice. Offered only at Casa Artom in Venice. (D)

**MUS 215. Philosophy of Music. (3 h)**

A survey of philosophical writings about music. Musical aesthetics; social, religious, and political concerns.

**MUS 219. Music in Vienna. (3 h)**

Study of the music and musical institutions of Vienna and Central Europe. Taught in English. Offered only at the Flow House in Vienna. (D)

**MUS 220. Seminar in Music History. (3 h)**

Intensive study of a selected topic in music history. P-MUS 174, 181, 182, 183, or POI. (D)

**MUS 231. World of Musical Instruments. (3 h)**

Historical survey of musical instruments by families. Instruments of Western art music, selected world cultures, and vernacular music of the United States, as well as electronic instruments. Students complete a project or projects on the technical or theoretical aspects of instruments. Designed for music majors and minors. Meets concurrently with MUS 131. Credit cannot be received for both MUS 131 and 231. P-MUS 171 or POI. (D)

**MUS 232. Beethoven. (3 h)**

The life and works of Ludwig van Beethoven. Students complete a project or projects on the technical or theoretical aspects of Beethoven's music. Meets concurrently with MUS 132. Credit cannot be received for both MUS 132 and 232. P-POI. (D)

**MUS 234. Music of Asia. (3 h)**

Survey of classical, vernacular, and popular musical traditions in selected Asian cultures, focusing on India, China, Japan, Korea, and Southeast Asia. The course will also examine the influence of Asian and Western philosophy and musical aesthetics on the development of the music, theater, and dance of Asia. Students will complete a project or projects on the technical or theoretical aspects of music of Asia. Designed for music majors and minors. Meets concurrently with MUS 134. Students may not receive credit for both MUS 134 and 234. (CD, D)

**MUS 240. Modern Popular Music. (3 h)**

A survey of the history of popular music focusing on the United States from 1955-present that examines influential music genres and individual artists as well as situating their repertoires within sociocultural, political, economic, and technological contexts. Students complete a final project on an aspect of popular music. Designed for music majors and minors. Meets concurrently with MUS 140. Credit cannot be received for both MUS 140 and 240. P - MUS 172 or POI. (CD, D)

**MUS 262. Individual Instruction. (1.5 h)**

One one-hour lesson per week. (See the fee section of this bulletin for specific information regarding additional costs) Fulfills the individual instruction requirements for the major in music performance. May be repeated for credit. P - 2 hours of MUS 161 and/or MUS 162, plus successful completion of the audition for the major in musical performance, and POI.

**MUS 262A. Individual Instruction: Violin. (1.5 h)**

**MUS 262B. Individual Instruction: Viola. (1.5 h)**

**MUS 262C. Individual Instruction: Cello. (1.5 h)**

**MUS 262D. Individual Instruction: Bass. (1.5 h)**

**MUS 262E. Individual Instruction: Flute. (1.5 h)**

**MUS 262F. Individual Instruction: Oboe. (1.5 h)**

**MUS 262G. Individual Instruction: Clarinet. (1.5 h)**

**MUS 262H. Individual Instruction: Bassoon. (1.5 h)**

**MUS 262I. Individual Instruction: Saxophone. (1.5 h)**

**MUS 262J. Individual Instruction: Trumpet. (1.5 h)**

**MUS 262K. Individual Instruction: French Horn. (1.5 h)**

**MUS 262L. Individual Instruction: Trombone. (1.5 h)**

**MUS 262M. Individual Instruction: Baritone. (1.5 h)**

**MUS 262N. Individual Instruction: Tuba. (1.5 h)**

**MUS 262O. Individual Instruction: Organ. (1.5 h)**

**MUS 262P. Individual Instruction: Piano. (1.5 h)**

**MUS 262Q. Individual Instruction: Percussion. (1.5 h)**

**MUS 262R. Individual Instruction: Guitar. (1.5 h)**

**MUS 262S. Individual Instruction: Harp. (1.5 h)**

**MUS 262T. Individual Instruction: Electric Bass. (1.5 h)**

**MUS 262U. Individual Instruction: Accompanying. (1.5 h)**

**MUS 262V. Individual Instruction: Voice. (1.5 h)**

**MUS 262W. Individual Instruction: Recorder. (1.5 h)**

**MUS 262X. Individual Instruction: Viola da Gamba. (1.5 h)**

**MUS 262Y. Individual Instruction: Harpsichord. (1.5 h)**

**MUS 262Z. Individual Instruction: Jazz Improvisation. (1.5 h)**

**MUS 272. Performance and Analysis. (1.5 h)**

Individual instruction in practical music analysis for research and performance preparation. P-MUS 172 or POI.

**MUS 273. Composition. (1-1.5 h)**

Individual instruction in the craft of musical composition. May be repeated for credit. P - MUS 172 or POI.

**MUS 279. Internship in Music. (1-3 h)**

A supervised learning experience in music, in a work environment, for academic credit. No more than 3 hours may be counted toward a music major or minor. For further information, consult the Music Student Handbook. P-Declaration of a music major or minor, minimum Wake Forest GPA of 2.75, permission of faculty internship director. Pass/Fail only.

**MUS 280. Orchestration. (3 h)**

Study of the orchestral and wind band instruments, how composers have used them throughout history, and the development of practical scoring and manuscript skills. Offered in spring. P-MUS 174, MUS 182, and MUS 183 or POI.

**MUS 282. Conducting. (3 h)**

A study of choral and instrumental conducting techniques. P-MUS 172 or POI.

**MUS 283. Roots of Song. (3 h)**

Interdisciplinary investigation of poetry and song in the Middle Ages and early Renaissance. Study of the evolution of poetic and musical genres and styles, both sacred and secular. Students must complete a project or projects on the technical or theoretical aspects of early song. Students may not receive credit for both MUS 283 and ENG 313.

**MUS 284. Music Literature Seminar. (3 h)**

Survey of repertoire, including an examination of teaching materials in the student's special area of interest. (D)

**MUS 284A. Music Literature Seminar: Orchestral Literature. (3 h)**

**MUS 284B. Music Literature Seminar: Choral Literature. (3 h)**

**MUS 284C. Music Literature Seminar: Piano Literature. (3 h)**

**MUS 284D. Music Literature Seminar: Guitar Literature. (3 h)**

**MUS 284E. Music Literature Seminar: Vocal Literature. (3 h)**

**MUS 284F. Music Literature Seminar: Opera. (3 h)**

**MUS 285. Special Topics in Music. (1-3 h)**

An intensive study of a selected subject chosen by faculty prior to the term in which the course is offered. May be repeated if course content differs. P-POI.

**MUS 298. Independent Study. (1-3 h)**

Project in an area of study not otherwise available in the department. By pre-arrangement with department chair. P-Minimum Wake Forest GPA of 2.75.

**MUS 362. Senior Recital. (3 h)**

Preparation and public performance of a recital. (See the fee section of this bulletin for specific information regarding additional costs.) Fulfills the individual instruction requirements for the major in music performance. To be taken only during the senior year. A student may not receive credit for both MUS 362 and 363. A student may not enroll in MUS 262 and 362 in the same semester. May not be repeated for credit. P-Two semesters of MUS 262 and POI.

**MUS 363. Senior Honors Recital. (3 h)**

Preparation and public performance of a recital at the honors level. (See the fee section of this bulletin for specific information regarding additional costs.) Fulfills the individual instruction requirements for the major in music performance. To be taken only during the senior year. A student may not receive credit for both MUS 362 and 363. A student may not enroll in MUS 262 and 363 in the same semester. May not be repeated for credit. P-Faculty selection for honors in music.

**MUS 396. Senior Project Preparation. (1 h)**

Research, outlining, and other work preliminary to the completion of the written document in MUS 397 or 398. Optional for the music in liberal arts major. May not be taken concurrently with or after MUS 397 or 398. By prearrangement.

**MUS 397. Senior Project. (3 h)**

Writing and public presentation of a major composition, research paper, music analysis or conducting endeavor, according to criteria on file in the department. A student may not receive credit for both MUS 397 and 398. By prearrangement.

**MUS 398. Senior Honors Project. (3 h)**

Writing and public presentation of a major composition, research paper, music analysis, or conducting endeavor, according to criteria on file in the department. A student may not receive credit for both MUS 397 and 398. P-Faculty selection for Honors in Music.

## Near Eastern Lang. & Lit. (NLL)

### NLL 111. Elementary Hebrew. (3 h)

A course for beginners in the classical Hebrew of the Bible, with emphasis on the basic principles of grammar and the reading of biblical texts. Both semesters must be completed.

### NLL 112. Elementary Hebrew. (3 h)

A course for beginners in the classical Hebrew of the Bible, with emphasis on the basic principles of grammar and the reading of biblical texts. Both semesters must be completed.

### NLL 153. Intermediate Hebrew. (3 h)

Intensive work in Hebrew grammar and syntax. Based upon the reading of selected texts. Readings emphasize post-biblical Hebrew. P-NLL 111 and NLL 112 or the equivalent.

### NLL 211. Hebrew Literature. (3 h)

The reading and discussion of significant Biblical Hebrew texts. P-NLL 153.

### NLL 212. Hebrew Literature II. (3 h)

The reading and discussion of significant Biblical and post-Biblical texts. On request. P-NLL 153.

### NLL 213. Studies in Modern Hebrew. (3 h)

Intended for students with a working knowledge of Classical Hebrew, this course will explore some of the primary differences between the linguistic groups and will introduce students to the formal study of Modern Hebrew. POI required.

### NLL 301. Introduction to Semitic Languages. (3 h)

A comparative study of the history and structure of the languages of the Semitic family. On request.

### NLL 302. Akkadian I. (3 h)

An analysis of the phonology, morphology, and syntax of the East Semitic languages of the ancient Near East as they relate to the larger family of Semitic languages. On request.

### NLL 303. Akkadian II. (3 h)

A continuation of Akkadian I (NLL 302) with further emphasis on building expertise in vocabulary and syntax through the reading of texts from the Middle Babylonian period. On request.

### NLL 310. Intermediate Readings in Classical Hebrew. (1 h)

Analysis of selected texts designed to expand the student's facility with Hebrew. May be repeated for credit.

### NLL 311. Aramaic. (3 h)

The principles of Aramaic morphology, grammar, and syntax based on readings from the Bible and other ancient Near Eastern texts. P-NLL 112 or POI. On request.

### NLL 314. Readings from the Rabbis. (3 h)

Selected texts in Hebrew and Aramaic from the Mishna and Midrash. On request. P-NLL 211 or POI.

### NLL 321. Introduction to Middle Egyptian I. (3 h)

The phonology, morphology, and grammar of Middle Egyptian. On request.

### NLL 322. Introduction to Middle Egyptian II. (3 h)

The phonology, morphology, and grammar of Middle Egyptian. On request.

## Neuroscience (NEU)

### NEU 200. Introduction to Neuroscience. (3 h)

An interdisciplinary course taught by faculty representing several fields. Topics include neurophysiology, sensory biology, motor mechanisms, psychopharmacology, cognitive neuroscience, perception, and developmental neuroscience. P-BIO 150 or PSY 151 and sophomore standing. Fall only.

### NEU 201. Neuroscience Laboratory. (1 h)

Examines principles of neuroscience ranging from the molecular and cellular to the behavioral and cognitive. Lab-3 hours. P or C-NEU 200. Fall only.

### NEU 300. Neuroscience Seminars. (3 h)

Consideration of current neuroscience topics. Presentations of current research by faculty on the Reynolda Campus or the Wake Forest University School of Medicine. Readings from the primary literature will accompany the presentations. P-NEU 200 or POI. Spring only.

### NEU 301. Topics in Neuroscience. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

### NEU 302. Topics in Neuroscience. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

### NEU 303. Topics in Neuroscience. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

### NEU 304. Topics in Neuroscience. (1-4 h)

Seminar and/or lecture courses in selected topics, some involving laboratory instruction. May be repeated if the course title differs.

### NEU 391. Research in Neuroscience. (2 h)

Supervised independent laboratory investigation in neuroscience. P-POI.

### NEU 392. Research in Neuroscience. (2 h)

Continued supervised independent laboratory investigation in Neuroscience. Not to be counted toward the minor. P-NEU 391 and POI.

### NEU 393. Research in Neuroscience. (2 h)

Continued supervised independent laboratory investigation in Neuroscience. Not to be counted toward the minor. P-NEU 392 and POI.

### NEU 394. Research in Neuroscience. (2 h)

Continued supervised independent laboratory investigation in Neuroscience. Not to be counted toward the minor. P-NEU 393 and POI.

## Philosophy (PHI)

### PHI 111. Problems of Philosophy. (3 h)

Examines the basic concepts of several representative philosophers, including their accounts of the nature of knowledge, persons, God, mind, and matter. (D)

### PHI 112. Introduction to Philosophical Ideas. (3 h)

How and why does philosophy engage religious belief and common sense? Why is the purposive world of pre-modern life abandoned by modern naturalism, skepticism, and existentialism? How are our contemporary ideas of self and world expressions of these opposing conceptions of life, love, and meaning? (D)

### PHI 113. Knowledge and Reality. (3 h)

Examination of three interconnected philosophic problems: the nature of existence; the distinction between truth and falsity; and the question of what it means to know. (D)

**PHI 114. Philosophy of Human Nature. (3 h)**

A study of selected topics bearing on human nature, such as free will and determinism, the relation of mind and body, personal identity and personhood, and immortality. (D)

**PHI 115. Introduction to Philosophy of Religion. (3 h)**

A study of some central issues in the philosophy of religion, such as arguments for and against the existence of God; faith and reason; the divine attributes; the nature and existence of the soul; the possibility of immortality; and religious diversity. (D)

**PHI 116. Meaning and Happiness. (3 h)**

Beginning with Plato (c. 400 BCE) and ending with Foucault (died 1984) the course will look at the views of Western philosophers who have discussed how to live a happy, meaningful life, with particular attention paid to 'post-death-of-God' philosophers. (e.g., Schopenhauer, Nietzsche, Marx, Sartre, Camus, Heidegger). (D)

**PHI 160. Introduction to Political Philosophy. (3 h)**

Examines basic concepts and problems in political thought, including social and economic issues, individual rights, equality, justice, and the common good. (D)

**PHI 161. Introduction to Bioethics. (3 h)**

A study of ethical issues that arise in health care and the life sciences such as informed consent, experimentation on human subjects, truth-telling, confidentiality, abortion, and the allocation of scarce medical resources. (D)

**PHI 163. Environmental Ethics. (3 h)**

An examination of ethical issues concerning the environment as they arise in individual lives and public policy. (D)

**PHI 164. Contemporary Moral Problems. (3 h)**

A study of pressing ethical issues in contemporary life, such as abortion, euthanasia, animal rights, affirmative action, marriage, cloning, pornography, and capital punishment. (D)

**PHI 165. Introduction to Philosophy of Law. (3 h)**

An examination of prominent legal cases and their underlying principles, with an emphasis on philosophical analysis and moral evaluation. Topics include the rule of law, constitutional interpretation, judicial review, legal enforcement of morality, punishment, and freedom of speech and of religion. (D)

**PHI 220. Logic. (3 h)**

Elementary study of the laws of valid inference, recognition of fallacies, and logical analysis. (D)

**PHI 221. Symbolic Logic. (3 h)**

Introduces propositional and predicate logic, including identity and functions. Construction of proofs. Use of models to demonstrate consistency and invalidity. Application of these techniques to the assessment of arguments expressed in ordinary language.

**PHI 232. Ancient Greek Philosophy. (3 h)**

A study of the central figures in early Greek philosophy, beginning with the Presocratics, focusing primarily on Plato and Aristotle, and concluding with a brief survey of some Hellenistic philosophers. P - One PHI course or POI.

**PHI 235. Main Streams of Chinese Philosophy. (3 h)**

Survey of the main streams of Chinese philosophical thought from their ancient beginnings to their development and influence on one another in later eras.

**PHI 237. Medieval Philosophy. (3 h)**

A survey of some major philosophers from Augustine to Suarez, including Anselm, Averroes, Maimonides, Avicenna, Aquinas, Scotus and Ockham. P-One PHI course or POI.

**PHI 241. Modern Philosophy. (3 h)**

A study of the works of influential 17th and 18th century European philosophers such as Descartes, Locke, Leibniz, Berkeley, and Hume, with a concentration on theories of knowledge and metaphysics. P-One PHI course or POI.

**PHI 280. Topics in Philosophy. (1-3 h)**

Seminar and/or lecture course in selected topics. May be repeated if course title differs. P—One PHI course or POI.

**PHI 331. Plato. (3 h)**

Detailed analysis of selected dialogues, covering Plato's most important contributions to moral and political philosophy, theory of knowledge, metaphysics, and theology. P-One PHI course or POI.

**PHI 332. Aristotle. (3 h)**

Study of the major texts, with emphasis on metaphysics, ethics, and theory of knowledge. P-One PHI course (232 or 331 strongly recommended) or POI.

**PHI 333. Hellenistic Philosophy. (3 h)**

Study of the Ancient Greek and Roman philosophical schools of the Hellenistic Period, focusing on the Stoics, Sceptics, and Epicureans. P-One PHI course or POI.

**PHI 337. Thomas Aquinas. (3 h)**

Study of some major texts, with a focus on metaphysics and philosophical theology. P—One PHI course (232 strongly recommended) or POI.

**PHI 341. Kant. (3 h)**

A study of Kant's principal contributions to metaphysics and the theory of knowledge. P-One PHI course (241 strongly recommended) or POI.

**PHI 342. Topics in Modern Philosophy. (3 h)**

Treatment of selected figures and/or themes in 17th and 18th century European philosophy. P-One PHI course (241 strongly recommended) or POI.

**PHI 352. 19th-Century European Philosophy: Hegel, Kierkegaard, Nietzsche. (3 h)**

Is there a way to think about the natural world that also makes sense of human life and history? Is anything gained, or lost, by thinking holistically about the world as a whole? Is a life dedicated to thinking about the world (and living accordingly) a way of avoiding authentic human life? What does it mean to live authentically? Does nihilism provide the answer or is it a form of avoidance? P – One PHI course or POI.

**PHI 353. Heidegger. (3 h)**

Heidegger early and late. Early Heidegger: the contrast between conformism and authenticity achieved through 'being-towards-death'; meaning through communal tradition. Late Heidegger: critique of modernity's reduction of everything to 'resource'; the ethics of 'dwelling' as our proper way of being in the world. P—One PHI course or POI.

**PHI 354. Wittgenstein. (3 h)**

A study of the work of Ludwig Wittgenstein on such topics as the picture theory of meaning, truth, skepticism, private languages, thinking, feeling, the mystical, and the ethical. P-One PHI course (221 strongly recommended) or POI.

**PHI 355. Contemporary Philosophy. (3 h)**

Study of the principal works of several representative 20th century philosophers. P-One PHI course (221 strongly recommended) or POI.

**PHI 356. Twentieth-Century European Philosophy. (3 h)**

Representative Issues: the 'disenchantment' and 'rationalization' of modernity, the character of modern technology, the possibility of mutual understanding in a multicultural world, the nature of 'dwelling'. Representative figures: Weber, Husserl, Korkheimer, Adorno, Marcuse, Heidegger, Gadamer, Arendt, Habermas. P-One PHI course or POI.

**PHI 360. Ethics. (3 h)**

Systematic examination of central ethical theories in the Western philosophical tradition. Such theories include Kantian deontology, utilitarianism, Aristotelian virtue ethics, and divine command theory. P-One PHI course or POI.

**PHI 361. Topics in Ethics. (3 h)**

One PHI course or POI.

**PHI 362. Social and Political Philosophy. (3 h)**

A systematic examination of the work of selected contemporary and traditional philosophers on topics such as the state, the family, distributive justice, property, liberty, and the common good. P-One PHI course or POI.

**PHI 363. Philosophy of Law. (3 h)**

Inquiry into the nature of law and its relation to morality. Classroom discussions of readings from the works of classical and modern authors focus on issues of contemporary concern involving questions of legal principle, personal liberty, human rights, responsibility, justice, and punishment. P-One PHI course or POI.

**PHI 364. Freedom, Action, and Responsibility. (3 h)**

Study of the nature of human freedom and related matters in the philosophy of action, metaphysics, and moral philosophy. P-One PHI course or POI.

**PHI 365. Philosophy of Love and Friendship. (3 h)**

Study of the historical and contemporary philosophical investigations of love and friendship. P - One PHI course or POI.

**PHI 366. Global Justice. (3 h)**

Does justice transcend national boundaries? Topics include citizenship, national sovereignty, war, human rights, humanitarian concerns, distribution of resources and burdens, and international law. P-One PHI course or POI.

**PHI 367. Philosophical Theories in Bioethics. (3 h)**

A study of the main philosophical approaches to contemporary bioethics. Each approach is examined critically and students explore how each approach informs analysis of contemporary issues in bioethics. P-One PHI course or POI.

**PHI 368. Concepts of Health & Disease. (3 h)**

Concepts of health, disease, and disability shape discussions in bioethics and health policy. This course examines and critically evaluates competing conceptions of health and disease. The implications of adopting different understandings of health and disease for bioethics and health policy are explored. P-One PHI course or POI.

**PHI 369. Philosophy and Psychology. (3 h)**

Examines philosophical issues relating to moral, social, behavioral, and/or cognitive psychology. Topics may include the existence and nature of moral character; bias, self deception, and denial; reasoning, intuition, and deliberation; and perception and consciousness. P - One PHI course or POI.

**PHI 370. Philosophy and Christianity. (3 h)**

Examination of the philosophical foundations of Christian thought and belief. Christian concepts of God and life everlasting, trinity, incarnation, atonement, prayer, sin, evil and obligation. P-One PHI course or POI.

**PHI 371. Aesthetics and the Philosophy of Art. (3 h)**

Covers such questions as: What is beauty? What is taste? What is art? Must art be beautiful? Can immoral art be good art? Readings may cover historical figures such as Plato or Kant, or may focus on contemporary writers. P-One PHI course or POI.

**PHI 372. Philosophy of Religion. (3 h)**

What is religion? Are the gods dead? Is God dead? Is religious belief a symptom of an underlying human weakness or biological process, or could it be a response to the sacred? Must believers rely on something less than knowledge? Are philosophical proofs the way to knowledge of God? What sort of problem is the "problem of evil" and what is its significance? How are religious beliefs like and unlike metaphysical, moral, and modern scientific beliefs? P - One PHI course or POI.

**PHI 373. Philosophy of Science. (3 h)**

Systematic and critical examination of major views concerning the methods of scientific inquiry, and the bases, goals, and implications of the scientific conclusions which result from such inquiry. P-One PHI course or POI.

**PHI 374. Philosophy of Mind. (3 h)**

Selection from the following topics: the mind-body problem; personal identity; the unity of consciousness; minds and machines; the nature of experience; action, intention, and the will. P-One PHI course or POI.

**PHI 375. Philosophy of Language. (3 h)**

Study of such philosophical issues about language as truth and meaning, reference and description, proper names, indexicals, modality, tense, the semantical paradoxes, and the differences between languages and other sorts of sign-systems. Also listed as LIN 375. P-One PHI course (221 strongly recommended) or POI.

**PHI 376. Epistemology. (3 h)**

The sources, scope and structure of human knowledge. Topics include: skepticism; perception, memory, and reason; the definition of knowledge; the nature of justification; theories of truth. P-One PHI course or POI.

**PHI 377. Metaphysics. (3 h)**

A survey of such issues as the nature and existence of properties, possibility and necessity, time and persistence, causation, freedom and determinism, and dualism versus materialism about the human person. P-One PHI course or POI.

**PHI 378. Philosophy of Space and Time. (3 h)**

Philosophical thought about space and time, from the Presocratics to the present. Topics may include the reality of the passage of time, paradoxes of change and motion, puzzles and the awareness of time, spacetime and relativity, and the possibility of time-travel. P-One PHI course or POI.

**PHI 379. Feminist Philosophy. (3 h)**

Examination of feminist approaches to philosophical theorizing. Topics may include feminist critiques of the scope and methods of mainstream philosophy, feminist approaches to ethics, epistemology and philosophy of language, and feminist conceptions of the self, sexuality, and moral agency. Also listed as WGS 240. P-one PHI course or POI.

**PHI 385. Seminar. (3 h)**

Offered by members of the faculty on specialized topics of their choice. With permission, may be repeated for credit. P-POI.

**PHI 391. Honors I. (1.5 h)**

Directed study and research in preparation for writing an honors thesis. P- Admission to the honors program in philosophy.

**PHI 392. Honors II. (1.5 h)**

Completion of the honors thesis begun in PHI 391. Graduation with honors in philosophy requires successful defense of the honors thesis in an oral examination conducted by at least two members of the department. P-PHI 391.

**PHI 395. Independent Study. (1-3 h)**

## Physics (PHY)

**PHY 105. Descriptive Astronomy. (4 h)**

Introductory study of the universe, from the solar system to the galaxies. No lab.

**PHY 109. Astronomy. (4 h)**

An introductory study of the universe consisting of descriptive astronomy, the historical development of astronomical theories, and astrophysics. Knowledge of basic algebra and trigonometry is required. Lab-2 hours. (D)

**PHY 109L. Astronomy Lab. (0-1 h)****PHY 110. Introductory Physics. (4 h)**

A conceptual, non-calculus one-semester survey of the essentials of physics, including mechanics, wave motion, heat, sound, electricity, magnetism, optics, and modern physics. Not recommended for premedical, mathematics, or science students. A student who has credit for PHY 111, 113, 114, 123 or 124 or who is currently taking PHY 113, 114, 123 or 124 is not allowed to register for PHY 110. Lab-2 hours. (D, QR)

**PHY 110L. Introductory Physics Lab. (0 h)****PHY 111. Mechanics Waves and Heat. (4 h)**

Introduction to mechanics, wave motion, thermodynamics, and sound. Extensive use of algebra and trigonometry. Credit allowed for either PHY 111, 113 or 123 but not for more than one. Lab-2 hours. Available for transfer, AP, IB, or A-levels credit only; not approved for summer school elsewhere. (QR)

**PHY 113. General Physics I. (4 h)**

Essentials of mechanics, wave motion, heat, and sound treated with some use of calculus. Recommended for science, mathematics, and premedical students. Credit allowed for either PHY 111, 113 or 123 but not for more than one. Lab-2 hours. C-MST 111 or 112 or equivalent. (D, QR)

**PHY 113L. General Physics Lab. (0 h)****PHY 114. General Physics II. (4 h)**

Essentials of electricity, magnetism, optics, and modern physics treated with some use of calculus. Recommended for science, mathematics, and premedical students. Credit allowed for either PHY 114 or 124, but not both. Lab-2 hours. P-MST 111 or 112 or equivalent and PHY 111, 113, or 123. (D, QR)

**PHY 114L. General Physics II Lab. (0 h)****PHY 115. The Physics of Music. (4 h)**

Introduction to the physics of music, using algebra and trigonometry. Basic physical concepts associated with motion, force and energy are applied to ideal vibrating systems, resonant systems, strings, and sound waves. Uses of these concepts are explored in relation to musical instruments the human voice, signal processing and room acoustics (D, QR).

**PHY 120. Physics and Chemistry of Environment. (4 h)**

Covers the basic physical and chemical processes in the earth's atmosphere, biosphere and the oceans. Also listed as PHY 120. (D, QR)

**PHY 120L. Physics and Chemistry of the Environment Lab. (0 h)**

C-PHY 120.

**PHY 123. General Physics I - Studio Format. (4 h)**

In-depth introduction to mechanics, wave motion, heat, and sound treated with use of calculus and employing advanced techniques and interactive learning. Recommended for potential physics majors. Credit allowed for either PHY 111 or 113 or 123, but not more than one. Lab - 2 hours. C-MST 111 or 112 or equivalent. (D, QR)

**PHY 123L. General Physics I - Studio Format Lab. (0 h)****PHY 124. General Physics II - Studio Format. (4 h)**

In-depth introduction to electricity, magnetism, optics, and modern physics treated with use of calculus and employing advanced techniques and interactive learning. Recommended for potential physics majors. Credit allowed for either PHY 114 or 124, but not both. Lab - 2 hours. P-MST 111 or 112 or equivalent and PHY 111 or 113 or 123. (D, QR)

**PHY 124L. General Physics II - Studio Format Lab. (0 h)****PHY 215. Elementary Modern Physics. (3 h)**

Development of 20th-century physics and an introduction to quantum ideas. The physics department recommends that PHY 215 be taken concurrently with PHY 265. P-PHY 114 or 124 and MST 111 or MST 112. (D, QR)

**PHY 230. Electronics. (3 h)**

Introduction to the theory and application of transistors and electronic circuits. Lab-three hours. P - PHY 114 or 124. (D, QR)

**PHY 262. Mechanics. (3 h)**

Study of the equations of motion describing several kinds of physical systems: velocity-dependent forces; damped and forced simple harmonic motion; orbital motion; inertial and non-inertial reference frames. Includes extensive use of computers. P-PHY 113 or 123, and MST 205 or MST 251, and C-MST 113. (D, QR)

**PHY 265. Intermediate Laboratory I. (1 h)**

Experiments on modern physics. P or C-PHY 215.

**PHY 266. Intermediate Laboratory II. (1 h)**

Experiments on mechanics, electronics, and computer simulations. P or C-PHY 262.

**PHY 301. Physics Seminar. (0.5 h)**

Discussion of contemporary research, usually with visiting scientists. Attendance required of junior and senior physics majors. Does not count toward the six hours of electives required for the BA major. Pass/Fail only.

**PHY 307. Biophysics. (3 h)**

Introduction to the structure, dynamic behavior, and function of DNA and proteins, and a survey of membrane biophysics. The physical principles of structure determination by X-ray, NMR, and optical methods are emphasized. Also listed as PHY 307. P-BIO 114 or 214, PHY 113 or 123, PHY 114 or 124, or POI. BIO 150, 150L, 160, and 160L may be substituted for BIO 114 and 214.

**PHY 310. Extragalactic Astronomy and Cosmology. (3 h)**

Topics covered include galactic structure, models for galaxies and galaxy formation, the large scale structure of the universe, the big bang model of the universe, physical processes such as nucleosynthesis in the early universe, and observational cosmology. P-PHY 262 and MST 205 or 251. (D)



**PHY 320. Physics of Biological Macromolecules. (3 h)**

The physics of large biologically important molecules, especially proteins and nucleic acids. Topics covered include the physical basis of biomolecular structure, the energetics and statistical mechanics of biomolecular dynamics, and the electrostatics and solvation of biomolecules. Designed for students with biochemistry, chemistry, or physics backgrounds. P-PHY 113 or 123, 114 or 124. (D)

**PHY 323. Computational Biophysics Laboratory. (1 h)**

Application of techniques in molecular modeling, including energy minimization, molecular dynamics simulation, and conformational analysis. C-PHY 320 or POI.

**PHY 325. Biophysical Methods Laboratory. (1.5 h)**

Experiments using various biophysical techniques such as electron paramagnetic resonance, atomic force microscopy, stopped-flow absorption spectroscopy, X-ray diffraction, and gel electrophoresis. C-PHY 307.

**PHY 335. Computational Physics. (3 h)**

An introduction to finding numerical solutions to scientific problems. Topics include understanding computational errors, differentiation, integration, interpolation, root finding, random numbers, linear systems, Fourier methods, and the solution of ODEs and PDEs. There is no computer programming prerequisite. Credit will not be given for both PHY 335 and CSC 355/MST 355. P-MST 113 and 205 (or instead of MST 205, P-MST 121 and 251), or POI.

**PHY 337. Analytical Mechanics. (1.5 h)**

The Lagrangian and Hamiltonian formulations of mechanics with applications. Taught in the first half of the fall semester. P-PHY 262, MST 113 and 205 (or instead of MST 205, P-MST 121 and 251).

**PHY 339. Electricity and Magnetism. (1.5 h)**

Electrostatics, magnetostatics, dielectric and magnetic materials, Maxwell's equations and applications to radiation, relativistic formulation. PHY 339 is taught in the second half of the fall semester, following PHY 337. These should be taken in sequence. P-PHY 114 or 124, MST 113 and MST 205 or 251. (D)

**PHY 340. Electricity and Magnetism. (3 h)**

Electrostatics, magnetostatics, dielectric and magnetic materials, Maxwell's equations and applications to radiation, relativistic formulation. PHY 340 is taught in the spring semester after PHY 339. These should be taken in sequence. P-PHY 339. (D)

**PHY 341. Thermodynamics and Statistical Mechanics. (3 h)**

Introduction to classical and statistical thermodynamics and distribution functions. Also listed as CHM 341. Also offered in Salamanca. P-PHY 215 and MST 113. (D)

**PHY 343. Quantum Physics. (3 h)**

Basic quantum theory and applications including the time-independent Schrodinger equation, formalism and Dirac notation, the hydrogen atom, spin, identical particles, and approximation methods. P-PHY 215, MST 113 and 205 (or instead of MST 205, P-MST 121 and 251). (D)

**PHY 344. Quantum Physics. (3 h)**

Basic quantum theory and applications including the time-independent Schrodinger equation, formalism and Dirac notation, the hydrogen atom, spin, identical particles, and approximation methods. P-PHY 343. (D)

**PHY 347. Intellectual Property in Science and Engineering. (1 h)**

Introduction to the process of creating and protecting intellectual property, with discussion of economic impact of IP rulings and concept of a non-disclosure agreement. Working with representative examples from physics, engineering, and biotechnology, the students, working in small teams, will analyze and create invention disclosures, patent applications, and issued patents. Recommended background: three courses from the major tracks in physics, chemistry, biology, or computer science.

**PHY 352. Physical Optics and Optical Design. (4 h)**

Interaction of light with materials; diffraction and coherent optics; ray trace methods of optical design. Lab-3 hours. P-PHY 114 or 214 and PHY 215. (D)

**PHY 352L. Physical Optics Lab. (0 h)****PHY 354. Introduction to Solid State Physics. (3 h)**

A survey of the structure, composition, physical properties, and technological applications of condensed matter. P-PHY 343. (D)

**PHY 355. Exotic Materials. (1.5 h)**

Study of materials that express exotic properties that are derived from some aspect of the system's dimensionality, introduces the thermal, electrical, optical and magnetic properties of exotic materials systems. Discusses simple models for the structure-property relationships for a wide range of of nanoscale and low-dimensional systems. C - PHY 343.

**PHY 356. Electron-Imaging Sciences. (1.5 h)**

Introduces the theory and application of the electron imaging systems: transmission electron microscopy (TEM) and scanning electron microscopy (SEM). Focuses on basic materials science though some biological materials will be covered. Taught as a series of lectures followed by laboratories. P - PHY 215.

**PHY 357. Scanning Probes. (1.5 h)**

Examines the theory and application of scanning tunneling microscopy and atomic force microscopy (STM/AFM). Introduces how each type of imaging works, how to model spectroscopic data, and how to use each microscope. Students will image using the STM and AFM as well as take and reduce spectroscopy data using models built in Maple or Mathematica. P - PHY 215.

**PHY 358. Kinetics of Materials. (1.5 h)**

Study of driving forces for atomic and ionic motion within solids leading to a range of materials properties from work hardening to phase transformations and formation. Atomic-level models for diffusion will be introduced as well as techniques and examples of the solution to the diffusion equation. Complements the traditional thermodynamics course. C - PHY 341 and 354 or POI.

**PHY 361. Biophysics Seminar. (1 h)**

Seminal and current publications in biophysics will be studied. Each week a member of the class will make an oral presentation on a chosen publication and will lead the ensuing discussion.

**PHY 363. Condensed Matter Seminar. (1 h)**

Seminal and current publications in condensed matter physics are studied. Each week a member of the class makes an oral presentation on a chosen publication and leads the ensuing discussion.

**PHY 381. Research. (1.5-3 h)**

Library, conference, computation, and laboratory work performed on an individual basis. May be repeated for credit.

**PHY 385. Bioinformatics. (3 h)**

Introduction to computational approaches essential to modern biological inquiry. Approaches may include large biological dataset analyses, sequence similarity and motif searches, and analysis of high-throughput genomic technologies. Emphasizes interdisciplinary interaction and communication. Also listed as CSC 385 and PHY 385. P-CSC 201 or 221 (and BIO 150, 150L, 160, and 160L if taken as BIO 385) or POL.

**PHY 391. Special Topics in Physics. (1-4 h)**

Courses in selected topics in physics. May be repeated if course content differs.

**PHY 392. Special Topics in Physics. (1-4 h)**

Courses in selected topics in physics. May be repeated if course content differs.

## Politics&International Affairs (POL)

**POL 113. American Government and Politics. (3 h)**

The nature of politics, political principles, and political institutions, with emphasis on their application to the United States. (D)

**POL 114. Comparative Government and Politics. (3 h)**

An analysis of political institutions, processes, and policy issues in selected countries. Case studies will be drawn from Africa, Asia, Europe, and Latin America. (CD, D)

**POL 115. Political Theory. (3 h)**

Introduces the major concepts, questions, and ideas from across the history of political thought, to examine the nature of politics and the moral and ethical aspects of political life. (D)

**POL 116. International Politics. (3 h)**

Surveys the forces which shape relations among states and some of the major problems of contemporary international politics. (CD, D)

**POL 202. Political Structures of Present-day Spain. (3 h)**

A study of the various political elements which affect the modern Spanish state. Counts as an elective for the Spanish major.

**POL 210. Topics In United States Politics and Policy. (3 h)**

An intensive study of one or more major problems in contemporary United States politics and policy. Course may be retaken for credit if topic varies.

**POL 211. Political Parties, Voters, and Elections. (3 h)**

An examination of party competition, party organizations, the electorate and electoral activities of parties, and the responsibilities of parties for governing.

**POL 212. U.S. Policymaking in the Twenty-first Century. (3 h)**

Examines the contemporary United States policymaking process. Special attention to ways issues become important and contributions of different political actors, institutions, and ideologies in the passage or rejection of policy proposals. Considers a range of social, economic, and regulatory policies.

**POL 213. Economic Inequality and American Politics. (3 h)**

Examines patterns of economic inequality in the United States, weighs competing causal explanations for changing distributions of income and wealth, and investigates the effects of this inequality on American democracy.

**POL 214. Latino/a Political Behavior. (3 h)**

Examines the contemporary role of Latinos as a minority group in the U.S. with emphasis on U.S. immigration policies. Latina/o political participation and identity, and interracial coalition formations. Service-learning course. (CD)

**POL 215. Citizen and Community. (3 h)**

An examination of the role and responsibilities of citizens in democratic policymaking. Includes discussion of democratic theory, emphasis on a policy issue of national importance (i.e. poverty, crime, environment), and involvement of students in projects that examine the dimension of the issue in their community. Service Learning.

**POL 216. U.S. Social Welfare Policy. (3 h)**

An analysis of U.S. social policymaking and policy outcomes on issues such as welfare, education, health care, and Social Security, with an emphasis on historical development and cross-national comparison.

**POL 217. Politics and the Mass Media. (3 h)**

Exploration of the relationship between the political system and the mass media. Two broad concerns will be the regulation of the mass media and the impact of media on political processes and events.

**POL 218. Congress and Policymaking. (3 h)**

An examination of the composition, authority structures, external influences, and procedures of Congress with emphasis on their implications for policymaking in the United States.

**POL 219. Political Participation. (3 h)**

Examines political participation in the United States, with emphasis on electoral and non-electoral avenues through which individuals and groups wield influence in politics and government, including voting, interest groups, and social movements. Service-learning course.

**POL 220. The American Presidency. (3 h)**

Explores the interaction of the presidential office and the individual contemporary presidents in an evolving political context.

**POL 221. State Politics. (3 h)**

An examination of institutions, processes, and policies at the state level, with emphasis on the different patterns of governance in the various states and the consequences of the recent revitalization of state governments.

**POL 222. Urban Politics. (3 h)**

Examines the political structures and processes in American cities and suburbs as they relate to the social, economic, and political problems of the metropolis. Service-learning Course. (CD)

**POL 223. African American Politics. (3 h)**

A survey of selected topics, including African American political participation, political organizations, political leadership, and political issues. It will also show the relationship of these phenomena to American political institutions and processes as a whole.

**POL 224. Racial and Ethnic Politics. (3 h)**

Analysis of the impact and interactions of African Americans, Latinos, Asian Americans, American Indians, and Whites in U.S. politics, with special emphasis on the racial identity development, minority representation, and the U.S. criminal justice system. Service-learning course. (CD)

**POL 225. American Constitutional Law: Separation of Powers and the Federal System. (3 h)**

Analysis of Supreme Court decisions affecting the three branches of the national government and federal/state relations.

**POL 226. American Constitutional Law: Civil Rights and Liberties. (3 h)**

Analysis of Supreme Court decisions involving the Bill of Rights and the Fourteenth Amendment of the U.S. Constitution.

**POL 227. Politics, Law, and Courts. (3 h)**

Analysis of the intersection of law and democratic politics through consideration of judicial selection, judicial decision making, and the roles of various legal actors, including judges, lawyers, and juries.

**POL 228. Politics of Public Education. (3 h)**

Introduces students to some of the most popular and contentious contemporary education policy debates and discusses what the U.S. school system tells us about the country's fundamental political commitments.

**POL 229. Women, Gender, and Politics. (3 h)**

Examines classical and contemporary studies of how gender structures politics, including the political participation of women and other gendered social groups, as well as current policy issues.

**POL 231. Western European Politics. (3 h)**

Comparative analysis of political institutions, processes, and policy issues in selected West European countries. Special attention will be given to case studies involving Great Britain, France, Germany, Italy and to the process of European integration.

**POL 232. Politics in Russia and Eastern Europe. (3 h)**

Analysis of the political, economic, and social patterns of the region, emphasizing the dynamics and divergent outcomes of the regime transitions after the fall of communism in Central and Eastern Europe and the former Soviet Union.

**POL 233. The Politics of Modern Germany. (3 h)**

Study of the historical legacy, political behavior, and governmental institutions of contemporary Germany.

**POL 234. United Kingdom Politics in a Global Age. (3 h)**

Introduces the nature and content of contemporary United Kingdom politics by placing those politics in a wider analysis of United Kingdom history, society, and international positions. (CD)

**POL 235. European Integration. (3 h)**

Combines different approaches to the study of Europe by examining European integration-as highlighted by the development of the European Union-through the lenses of history, politics, culture, and economics.

**POL 236. Government and Politics in Latin America. (3 h)**

Comparative analysis of the institutions and processes of politics in the Latin American region. (CD)

**POL 237. The Comparative Politics of Welfare States. (3 h)**

Examines the various ways in which the U.S. and other advanced industrial societies respond to a number of shared "welfare issues," and craft public policy in areas such as pensions, health care, anti-poverty programs, family stability, and immigration.

**POL 238. Comparative Economic Development and Political Change. (3 h)**

An overview of the relationship between economic development, socio-structural change, and politics since the creation of the international capitalist system in the sixteenth century. The course is organized around case studies of industrialized democracies, evolving Communist systems and command economies, and "Third World" countries.

**POL 239. State, Economy, and International Competitiveness. (3 h)**

Introduces a range of important case studies of national economic performance to illustrate the role of public policy in economic performance in a number of leading industrial economies (the U.S., United Kingdom, Germany, Sweden, China, and Japan).

**POL 240. Politics of Human Rights. (3 h)**

Looks at the policy of dilemmas that both restored and new democracies face when dealing with past human rights violations and how they engage in structuring the domain of human rights in a changed global environment. (CD)

**POL 241. Contemporary India. (3 h)**

Examines the opportunities and constraints facing modern India across a range of issues including politics, international relations, economics, religion, caste and the environment.

**POL 242. Topics in Comparative Politics. (3 h)**

An intensive study of one or more major problems in contemporary comparative politics. Course may be retaken for credit if topic varies.

**POL 243. Corruption. (3 h)**

This course addresses the politics of appropriation of public resources for private gain, with a focus on why corruption levels vary across countries, why people choose to participate in corruption, and the effects of corruption on politics and the economy.

**POL 244. Politics and Literature. (3 h)**

Examines how literature can extend knowledge of politics and political systems. Considers the insights of selected novelists. Thematic and regional focus of the course will vary with instructor.

**POL 245. Ethnonationalism. (3 h)**

This course is concerned with the role of ethnicity in world politics. It focuses on both theoretical and substantive issues relating to: (a) the nature of ethnicity and ethnic group identity; (b) the sources of ethnic conflict; (c) the politics of ethnic conflict; (d) the policy management of ethnic conflict; and (e) international intervention in ethnic conflict.

**POL 246. Politics and Policies in South Asia. (3 h)**

A survey of major issues relevant to politics and policy in India, Pakistan, Bangladesh, and Sri Lanka. (CD)

**POL 247. Islam and Politics. (3 h)**

Explores the interrelationship of Islam and politics in the contemporary world/ Deals with Islam as a political ideology which shapes the structure of political institutions and behavior. Looks at Islam in practice by examining the interaction between Islam and the political systems of Iran, Pakistan, Saudi Arabia and others. (CD)

**POL 248. Chinese Politics. (3 h)**

A survey of the political institutions and processes in China (People's Republic of China and Republic of China). Emphasis on group conflict, elites, ideology, as well as current policy changes in the process of modernization.

**POL 250. Afghanistan, Pakistan, Iraq and U.S. Policy since 2001. (3 h)**

Broadly addresses the phenomena of U.S. involvement in two ongoing conflicts-the Afghanistan war and the Iraq war. Focuses on the respective domestic and international politics and policies of the four main actors relevant to the conflicts: U.S., Afghanistan, Pakistan, and Iraq.

**POL 251. Politics of Forced Migration. (3 h)**

Addresses major questions about forced migration in international politics, such as: What causes people to flee their homes? What are the effects of forced displacement on the host communities? How should considerations of human rights and international law affect our understanding of forced migration?.

**POL 252. Topics in International Politics. (3 h)**

An intensive study of one or more major problems of contemporary international politics. Course may be retaken for credit if topic varies.

**POL 253. International Political Economy. (3 h)**

Analyzes major issues in the global political economy including theoretical approaches to understanding the tension between politics and economics, monetary and trade policy, North-South relations, environmentalism, human rights and democratization.

**POL 254. U.S. Foreign Policy. (3 h)**

Analyzes the historical and theoretical perspectives shaping U.S. engagement with the world past and present. Applies this understanding to current problems in U.S. foreign policy.

**POL 255. Terrorism and Asymmetric Conflict. (3 h)**

A historical survey and analysis of terrorism and other forms of political violence, such as insurgency and guerrilla warfare involving state and non-state actors. Focuses on a variety of cases along with and examination of the challenges of counter-terrorism and counter-insurgency in the contemporary global system.

**POL 256. International Security. (3 h)**

Explores various theoretical approaches to security studies and contemporary security issues, with special attention to domestic variables, the use of force, strategic culture, weapons of mass destruction, the political economy of national security, and terrorism.

**POL 257. Politics of International Development. (3 h)**

Examines why some nations develop at a quite fast pace while others - even when rich in natural resources - don't. Explores the impact of colonial history, state-formation, civil conflicts, governance issues, and rising powers on economic growth and development.

**POL 258. International Relations of South Asia. (3 h)**

Examines the foreign policy decision making in India, Pakistan, Bangladesh and Sri Lanka vis-a-vis each other and major powers such as the U.S., Russia, and China.

**POL 259. Palestine and the Arab-Israeli Conflict. (3 h)**

Explores the nature and scope of the conflict with particular emphasis on the time period post-1967 and the respective policies of the three most significant actors in the conflict: the U.S., Israel and Palestine.

**POL 260. United States and East Asia. (3 h)**

An analytical survey of United States interaction with East Asia, with special emphasis on the strategic security and the political economy of the region. (CD)

**POL 261. International Law. (3 h)**

Analyzes major issues in public international law including sources of international law, state sovereignty, territorial jurisdiction, treaties, peaceful settlement of disputes, human rights, and the relationship between international law and domestic law.

**POL 262. International Organizations. (3 h)**

A survey of the philosophy, principles, organizational structure, and decision-making procedures of international organizations. In addition to the United Nations system, this course will analyze various international organizations in issues such as collective security, trade, economic development, human rights protection, and the environment.

**POL 263. U.S. Foreign Policy in the Middle East. (3 h)**

A critical analysis of U.S. foreign policy with respect to the Middle East since the Second World War. This course utilizes a case study method of instruction.

**POL 264. Moral Dilemmas in International Politics. (3 h)**

Examines moral dilemmas in international politics with reference to theories and cases. Topics include just war doctrine, responsibility of rich countries toward poor countries, exportability of capitalism and democracy, and legitimacy of humanitarian intervention.

**POL 266. Modern Civil Wars. (3 h)**

Examines and assesses competing theories of civil war, including economic, ethnic, religious, and ideological explanations. It also addresses dilemmas raised by civil war such as the spread of HIV/AIDS, the proliferation of private security companies, and the abuse of humanitarian aid.

**POL 267. Intelligence and International Politics. (3 h)**

Explores various facets of the world of intelligence and espionage in international politics, including intelligence collection and analysis, covert action, counterintelligence, the role of foreign intelligence agencies the relationship of the intelligence community to other political institutions, and important ethical issues and controversies in the field of intelligence today.

**POL 268. International Conflict Resolution. (3 h)**

Explores various approaches to conflict resolution through readings, case studies, and simulations. Issues include: negotiation and mediation, dealing with war criminals, tradeoffs between justice and peace, and the role of the international community.

**POL 269. Topics in Political Theory. (3 h)**

An intensive study of one or more major topics in political theory. Course may be retaken for credit if topic varies.

**POL 270. Ethics and Agency. (3 h)**

Explores the question of agency in relation to ethics with attention to practices of ethics that focus on judgment. Selected writings from Aristotle, Arendt, and Foucault.

**POL 271. Classical Political Thought. (3 h)**

Examination of the nature and goals of classical political theorizing, with attention to its origins in ancient Athens and its diffusion through Rome. Representative writers include Plato, Aristotle, and Cicero.

**POL 272. Democratic Theory. (3 h)**

Examination of the theoretical underpinnings of democracy and some of the critiques of those foundations. Focus will be on understanding some of the major theories of democracy and on how key democratic concepts are defined differently within these various traditions.

**POL 273. Marx, Marxism and Post-Marxism. (3 h)**

Examines Marx's early humanistic writings, his later philosophy, the vicissitudes of 20th-century Marxism and attempts to reorient Marx's theory in light of developments in contemporary political thought and practice.

**POL 274. Arab and Islamic Political Thought. (3 h)**

Examines the history, basic concepts, central questions and preoccupations of political thought in the Arab region, while critically analyzing what it means to engage political theory comparatively. (CD)

**POL 275. American Political Thought. (3 h)**

Examines texts from the founding to the present that consider debates over the Constitution and the power of government; liberal and republican theories of citizenship; race, class and gender inequality; tensions between diversity and national identity; theories of justice; and the development of progressive, conservative, and libertarian political ideologies in the United States.

**POL 276. Modern Political Thought. (3 h)**

Examines political thought from the 19th century to the present with a focus on the relationship between ethics and politics. Topics include the nature of the good life, freedom, and the political society that makes them possible.

**POL 277. Feminist Political Thought. (3 h)**

Introduction to feminist thought and its implications for the study and practice of political theory. Topics include feminist critiques of the Western political tradition and schools of feminist political theory. Also listed as WGS 301. (CD)

**POL 278. Politics and Identity. (3 h)**

Investigation of the ways in which concepts of identity have informed political norms, structures, and practices; the myriad forms identity takes (particularly gender, sexual orientation, class, race, religion, nationality and ethnicity) drawing on examples from across the globe; and theoretical approaches proposed for engaging differences. (CD)

**POL 280. Research Methods. (3 h)**

Overview of the qualitative and quantitative methods prominent in studying political science. Attention is given to the relationships between theory, method, and findings by focusing on the need to make systematic empirical observations. P-STA 111 must be taken before or concurrently with this course.

**POL 281. Environmental Political Thought. (3 h)**

Explores the human relationship to the natural world and the implications of this relationship to political issues, such as the preservation of wilderness, industrialization, consumerism, public and private ownership, and social justice.

**POL 282. Gandhi. (3 h)**

Explores the life, political philosophy, and the method of non-violent coercion (satyagraha) of Gandhi. Students define and implement group projects designed to promote change within the context of Gandhian methodology. Service-learning course.

**POL 286. Topics in Political Science. (1-3 h)**

Intensive study of one or more topics in the discipline. May not be used to meet one of the four area requirements. May be repeated for credit. Up to 6 hours may be counted toward the major.

**POL 287. Individual Study. (2, 3 h)**

Intensive research leading to the completion of an analytical paper conducted under the direction of a faculty member. Students initiate the project and secure the permission of an appropriate instructor. May be repeated for a maximum of six hours, only three of which may count toward the major. P-POI.

**POL 288. Directed Reading. (2, 3 h)**

Concentrated reading in an area of study not otherwise available. Students initiate the project and secure the permission of an appropriate instructor. P-POI.

**POL 289. Internship in Politics. (2, 3 h)**

Field work in a public or private setting with related readings and an analytical paper under the direction of a faculty member. Students initiate the project and secure the permission of an appropriate instructor. Normally one course in an appropriate subfield is taken prior to the internship. P-POI.

**POL 300. Senior Seminar in Political Science. (4 h)**

Readings and research on selected topics. P-POL 280 and STA 111.

## Portuguese (PTG)

**PTG 111. Elementary Portuguese. (3 h)**

Two-semester sequence designed to help students develop the ability to understand and speak Portuguese and also learn to read and write Portuguese at the elementary level. Labs required.

**PTG 112. Elementary Portuguese. (3 h)**

Two-semester sequence designed to help students develop the ability to understand and speak Portuguese and also learn to read and write Portuguese at the elementary level. Labs required.

**PTG 113. Intensive Elementary Portuguese. (4 h)**

Intensive introduction to Portuguese designed to help students develop the ability to understand and speak Portuguese and also learn to read and write Portuguese at the elementary level. P-POI.

**PTG 153. Intermediate Portuguese. (4 h)**

Intermediate-level course covering the structure of the language, developing students' reading, writing and conversation skills and preparing them for oral and written discussion of readings. Note that PTG 153 and 154 are mutually exclusive. Labs required. P-PTG 113 or POI.

**PTG 154. Accelerated Intermediate Portuguese. (3 h)**

Intensive intermediate-level course. Offers the opportunity to develop further reading, writing and conversation skills and prepare for oral and written discussion of readings. Labs required. P-PTG 113 or POI.

**PTG 212. Exploring the Lusophone World. (3 h)**

Exploration of significant cultural expressions from the Portuguese-speaking world. Emphasis on the development of competence in speaking, reading and writing Portuguese and on understanding how particular Lusophone societies have defined themselves. Offered only upon sufficient demand. P-PTG 153 or 154 or equivalent.

## Psychology (PSY)

**PSY 100. Learning to Learn. (3 h)**

A course designed for first and second year students who wish to improve their academic performance through the application of learning, study, memory, and time management strategies. By permission of the instructor only. Pass/Fail only.

**PSY 151. Introductory Psychology. (3 h)**

A systematic survey of psychology as the scientific study of behavior. Prerequisite to all courses of a higher number. (D)

**PSY 241. Developmental Psychology. (3 h)**

Surveys physical, emotional, cognitive, and social development in humans from conception to death. P-PSY 151. (D)

**PSY 243. Biopsychology. (3 h)**

An introduction to the biological substrates and processes that govern behavior. P- PSY 151. (D)

**PSY 245. Survey of Abnormal Behavior. (3 h)**

Study of problem behaviors such as depression, alcoholism, antisocial personality, the schizophrenias, and pathogenic personality patterns, with emphasis on causes, prevention, and the relationships of these disorders to normal lifestyles. P-PSY 151. (D)

**PSY 248. Cognitive Psychology. (3 h)**

Surveys theory and research on cognitive processes. Emphasizes memory, attention, visual and auditory information processing, concept identification/formation, and language. P- PSY 151. (D)

**PSY 255. Personality. (3 h)**

Survey of theory and research on the structure and function of human personality, with attention to the relationship to cognition, emotion, motivation, and behavior. P-PSY 151. (D)

**PSY 260. Social Psychology. (3 h)**

A survey of the field, including theories of social behavior, interpersonal attraction, attitudes and attitude change, and group behavior. P-PSY 151. (D)

**PSY 265. Human Sexuality. (3 h)**

Explores the psychological and physiological aspects of human sexuality, with attention to sexual mores, sexual deviances, sexual dysfunction, and sex-related roles. P-PSY 151. (D)

**PSY 268. Industrial/Organization Psychology. (3 h)**

Psychological principles and methods applied to problems commonly encountered in business and industry. P-PSY 151. (D)

**PSY 270. Topics in Psychology. (1.5 h)**

Focused in-depth review of current theory and research on a selected topic in the field. P-PSY 151.

**PSY 275. Internship in Psychology. (0-3 h)**

Field work in pre-approved settings under the supervision of qualified professionals. Related readings and a term paper required. Students must apply and secure permission from designated Psychology Department faculty member who will assign final grade. Students desiring to propose internship that has not been pre-approved must do so at least 1 month before the proposed start of the internship, following standard department procedures. Internships will not be approved for credit after the internship has already begun. Credits cannot count toward minimum required for major or minor. Pass/Fail only. Open only to declared psychology majors or minors with a minimum GPA of 2.75. Maximum 3 hours. P-PSY 310 or 311 and Permission of the Department (POD).

**PSY 278. Psychology of Memory. (3 h)**

A study of specialized knowledge regarding the most relevant aspects of memory function and important investigative techniques in this field. (D)

**PSY 280. Directed Study. (1-3 h)**

Student research performed under faculty supervision. P-PSY 151 and approval of faculty member prior to registration.

**PSY 310. Methods in Psychological Research. (3 h)**

Introduces statistics and research design for students minoring in psychology. P-PSY 151 (D, QR)

**PSY 311. Research Methods I. (4 h)**

Design and statistical analysis of correlational research. Lab-twice weekly. P-At least one course in addition to PSY 151. (QR, D)

**PSY 312. Research Methods II. (4 h)**

Design and statistical analysis of experimental methods. Lab-twice weekly. P-PSY 311. (QR)

**PSY 313. History and Systems of Psychology. (3 h)**

The development of psychological thought and research from ancient Greece to the present. Normally offered only fall semester. Senior major standing only. P-Two psychology courses beyond PSY 151 or POI. (D)

**PSY 314. Special Topics in Social Psychology. (3 h)**

Theoretical and empirical examination of specialized areas within social psychology. May be repeated for credit if topic varies. P-PSY 151. (D)

**PSY 315. Special Topics in Personality Psychology. (3 h)**

Theoretical and empirical examination of specialized areas within personality psychology. May be repeated for credit if topic varies. P-PSY 151. (D)

**PSY 316. Special Topics in Developmental Psychology. (3 h)**

Theoretical and empirical examination of specialized areas within developmental psychology. May be repeated for credit if topic varies. P-PSY 151. (D)

**PSY 317. Special Topics in Experimental Psychology. (3 h)**

Theoretical and empirical examination of specialized areas within experimental psychology. May be repeated for credit if topic varies. P-PSY 151. (D)

**PSY 320. Physiological Psychology. (3 h)**

Provides an in-depth examination of the nervous system and the physiological processes that underlie sensation, motor control, thinking, and emotion. P-PSY 310 or 311 or POI.

**PSY 322. Psychopharmacology. (3 h)**

A survey of the influences of a wide range of psychoactive drugs, both legal and illegal, on human physiology, cognition, and behavior. P-PSY 151. (D)

**PSY 323. Animal Behavior. (3 h)**

A survey of laboratory and field research on animal behavior. P-PSY 310 or 311 or POI.

**PSY 326. Learning Theory and Research. (3 h)**

Theory and current research in learning, with emphasis on applications of learning principles for behavior modification and comparisons across species. P-PSY 310 or 311. P or C-PSY 312.

**PSY 329. Perception. (3 h)**

Survey of theory and research findings on various sensory systems (vision, hearing, touch, taste). P-310 or 311.

**PSY 331. Research in Cognitive Psychology. (3 h)**

In-depth examination of research in a selected area of cognitive psychology such as memory, attention, or executive function. Research projects required. P-PSY 310 or 311. P or C-PSY 312.

**PSY 333. Motivation of Behavior. (3 h)**

Surveys basic motivational concepts and related evidence. P-PSY 310 or 311. P or C-PSY 312.

**PSY 338. Emotion. (3 h)**

Survey of theory methods and research in the area of emotion. Developmental, cultural, social-psychological, physiological, personality, and clinical perspectives on emotions are given. P-PSY 310 or 311.

**PSY 341. Research in Developmental Psychology. (3 h)**

Methodological issues and selected research in developmental psychology. Research projects required. P-PSY 310 or 311. P or C-PSY 312.

**PSY 344. Abnormal Psychology. (3 h)**

Descriptive analysis of the major types of abnormal behavior with attention to organic, psychological, and cultural causes and major modes of therapy. Offered in the summer. P-PSY 151. (D)

**PSY 346. Psychological Disorders of Childhood. (3 h)**

Survey of problems including conduct disorders, attention deficits disorders, depression, and autism. Emphasis on causes, prevention, treatment, and the relationships of disorders to normal child development and family life. P-PSY 245 or 344 or POI. (D)

**PSY 348. Clinical Neuroscience. (3 h)**

Surveys connections between abnormal neurological processes and clinical abnormalities. This implies already having an understanding of normal brain function and anatomy. P-PSY 243 or PSY 320 or PSY 322.

**PSY 351. Personality Research. (3 h)**

The application of a variety of research procedures to the study of human personality. Research projects required. P-PSY 310 or 311.

**PSY 355. Research in Social Psychology. (3 h)**

Methodological issues and selected research in the study of the human as a social animal. Research projects required. P-PSY 310 or 311.

**PSY 357. Cross-Cultural Psychology. (3 h)**

An examination of differences in psychological processes (e.g., attitudes, perception, mental health, organizational behavior) associated with cultural variation. P-PSY 151. (CD, D)

**PSY 359. Psychology of Gender. (3 h)**

An exploration of the psychological similarities and differences between human males and females, including consideration of social, cognitive, motivational, biological, and developmental determinants of behavior. P-PSY 151. (CD, D)

**PSY 362. Psychological Testing. (3 h)**

An overview of the development and nature of psychological tests with applications to school counseling, business, and clinical practice. Students have the opportunity to take a variety of psychological tests. P-PSY 310 or 311.

**PSY 363. Survey of Clinical Psychology. (3 h)**

Overview of the field of clinical psychology. P-Psychology senior majors only or POI. (D)

**PSY 364. Stereotyping and Prejudice. (3 h)**

Theoretical and empirical examination of the processes underlying prejudice, discrimination and racism. P-PSY 151. (CD, D)

**PSY 367. Parent-Child Relationships. (3 h)**

Surveys characteristics of parent-child relationships and issues of parenting as related to a variety of factors, including developmental changes of parent and child, family structure, and sociocultural context. P-PSY 151. (D)

**PSY 374. Research in Judgment and Decision Making. (3 h)**

A theoretical and empirical examination of how people make decisions and judgments about their lives and the world, and how these processes can be improved. P-PSY 310 or 311.

**PSY 381. Honors Seminar. (3 h)**

Seminar on selected problems in psychology. Intended primarily for students in the departmental honors program. P-PSY 311 and POI.

**PSY 383. Honors Research. (3 h)**

Seminar in selected issues in research design, followed by independent empirical research under the supervision of a member of the departmental faculty. P-PSY 311 and POI.

**PSY 392. Contemporary Issues in Psychology. (1.5 h)**

Seminar treatment of current theory and research in several areas of psychology. Required for senior majors. P-PSY 312, and senior major standing.

## Religion (REL)

**REL 101. Introduction to Religion. (3 h)**

A study of meaning and value as expressed in religious thought, experience, and practice. Focus varies with instructor. (D)

**REL 102. Introduction to the Bible. (3 h)**

A study of the forms, settings, contents, and themes of the Old and New Testaments. Focus varies with instructor. (D)

**REL 103A. Introduction to Christian Traditions. (3 h)**

Study of Christian experience, thought, and practice. Focus varies with instructor. (D)

**REL 103B. Introduction to Latin American Christian Traditions. (3 h)**

Study of the origins, practices, experiences, and thought of Christian traditions in Latin America. Focus varies with instructor. (CD, D)

**REL 104A. Introduction to Asian Religions. (3 h)**

Study of the thought and practices within the major religious traditions of South, Southeast, and East Asia. Focus, region, and traditions may vary with instructor. (CD, D)

**REL 104B. Introduction to South Asian Religions. (3 h)**

Study of the thought and practices within the major religious traditions of South Asia (Indian subcontinent). Focus and traditions may vary with instructor (CD, D)

**REL 104C. Introduction to East Asian Religions. (3 h)**

Study of the thought and practices within the major religious traditions of East Asia (China, Korea, and Japan). Focus, regions, and traditions may vary with instructor. (CD, D)

**REL 105. Monotheisms: Judaism, Christianity, and Islam. (3 h)**

Examines the history, thought, and practices of these three monotheistic traditions in global perspective. Focus varies by instructor. (D)

**REL 106. The Bible in America. (3 h)**

Critical examination of the ways in which various individuals and groups have interpreted, appropriated and used the Bible in America. Focus varies with instructor. (D)

**REL 107. Introduction to African Religions. (3 h)**

A study of the basic features of African religious systems and institutions, with focus on the cultural, economic and political factors that have informed global preservations of an African worldview. (CD, D)

**REL 108. Introduction to Hindu Traditions. (3 h)**

An examination of historical, political, and cultural developments of various traditions placed under the heading "Hinduism" in South Asia and abroad, with focus on ritual, myths, literature, and imagery that reflect their diverse beliefs and practices. (CD, D)

**REL 109. Introduction to Buddhist Traditions. (3 h)**

A study of the thought, history, and practices of Buddhist traditions in Asia. (CD, D)

**REL 110. Introduction to Islamic Traditions. (3 h)**

Examination of the origins and development of Islam. Attention is given to the formation of Islamic faith and practice. (CD, D)

**REL 111. American Indian and First People's Traditions. (3 h)**

Multi-disciplinary study of thought and practice in past and present American Indian and other indigenous communities. (CD, D)

**REL 113. Introduction to Jewish Traditions. (3 h)**

Examines the history, thought, and practices of Jewish traditions in global perspective. (D)

**REL 200. Approaches to the Study of Religion. (3 h)**

Explores the history of and methodological resources for the study of religion. Focus may vary with instructor, but the emphasis is on the ways religion has been defined, studied, and interpreted over the last several centuries.

**REL 210. Jerusalem in History and Tradition. (3 h)**

An examination of the ways meaning and religious significance have been imparted to Jerusalem far beyond its significance in world history.

**REL 230. Religion and the U.S. Constitution. (3 h)**

Introduces the complex relationship between religion and the U.S. government through an in-depth analysis of the nation's founding documents and the subsequent series of First Amendment church-state decisions rendered by the United States Supreme Court.

**REL 242. Sex, Death and Salvation. (3 h)**

Examines how various religious traditions, past and present, have understood the overlapping notions of sexuality, human destiny, and the afterlife. (CD)

**REL 244. Religion, Terrorism, and Violence. (3 h)**

Investigates definitions of terrorism and examines religious motivations, justifications and legitimization of the use of violence in a number of belief systems. (CD)

**REL 246. Religion and Race. (3 h)**

Explores the relationship between religion and race, two categories that describe identity and that intersect in the lives of individuals and groups. Focus varies with instructor. (CD)

**REL 261. Foundations of Traditional Judaism. (1.5 h)**

A study of rabbinic and medieval Judaism, emphasizing the post-biblical codification of Jewish thought in the Mishnah, Talmud, and Midrash.

**REL 265. Culture and Religion in Contemporary Native America. (3 h)**

Interdisciplinary survey of American Indian culture, including the arts and literature, religions, and historical changes. Emphasizes the impact of the Conquista, encounters with Northern Atlantic societies, and contemporary developments. Also listed as AES 265. (CD)

**REL 266. Religious Sects and Cults. (3 h)**

Examines historical and contemporary issues in the study of new religious movements by analyzing media coverage of "cults" and investigating the history of specific groups.

**REL 267. Religion and Popular Culture. (3 h)**

Examination of the relationship between religion and popular culture, focusing on a variety of popular culture forms and interpretive skills. Focus varies with instructor.

**REL 280. God, Gods, and the Ultimate. (3 h)**

Comparative study of the way religious traditions—both Eastern and Western—conceptualize "Ultimate Reality" or "the Absolute" (e.g., God, Allah, Brahman, the Dao, Emptiness). Particular attention will be given to the historical evolution and the socio-religious implications of the various conceptualizations studied. (CD)

**REL 286. Directed Reading. (1-3 h)**

A project in an area of study not otherwise available in the department. May be repeated for credit. (Group I-III with department approval) P-POI.

**REL 287. Directed Reading. (1-3 h)**

A project in an area of study not otherwise available in the department. May be repeated for credit. (Group I-III with department approval) P-POI.

**REL 288. Field Program in Religion and Public Engagement. (1-3 h)**

Integrated study of major themes in religion and public engagement carried out in partnership with one or more communities off campus. May be repeated for credit. Focus varies with instructor. P- POI. On request.

**REL 290. Special Topics in Religion. (1.5-3 h)**

Religion topics of special interest. Group I-III with department approval. May be repeated for credit if topic varies.

**REL 291. Crossing Divides: Dialogues Across Faith and Culture. (1.5-3 h)**

Examines methods and practices of inter-religious dialogue with special attention to contemporary challenges. Focus varies with instructor. (CD)

**REL 292. Crossing Divides: Crossing Back: Peacemaking. (1.5-3 h)**

Examines methods and practices of inter-religious peacemaking with special attention to contemporary challenges. Focus varies with instructor. (CD)

**REL 304. Myth, Ritual & Symbolism. (3 h)**

Explores how people envision and manipulate the supernatural in cross-cultural perspective. Emphasizes functional aspects of religious beliefs and practices. Also listed as ANT 336. (CD) P-ANT 111 or 112 or 113 or 114 or POI.

**REL 305. Ethnography of Religion. (3 h)**

Study of theory and method in ethnography of religion where students closely read ethnographies from a variety of cultures and discuss the practical, methodological and ethical issues related to ethnography. Course culminates with students researching and writing their own ethnographies. (CD)

**REL 306. Ritual Studies. (3 h)**

Introduction to the various methods and theories employed in the field of ritual studies, while examining comparative rituals and ritualized practices from around the world.

**REL 307. Magic, Science and Religion. (3 h)**

Explores concepts of magic, science and religion that emerged in Western thought and culture from late antiquity through the European Enlightenment and analyzes connections between religious traditions and Western, Modern Science.

**REL 308. Sacred Scripture in the Traditions of Abraham. (3 h)**

A comparative study of sacred texts in Judaism, Christianity, and Islam with attention to the issues of authority, function and interpretation.

**REL 310. The Prophetic Literature. (3 h)**

An examination of the development and theological contents of the literary products of Israel's prophetic movement.

**REL 312. The Critical Study of the Pentateuch. (3 h)**

A study of the five traditional books of Moses (the Torah) and the various lines of analysis that modern Biblical critics have used to interpret their composition and role in the development of Israelite theological thought.

**REL 313. Near Eastern Archeology. (3 h)**

A survey of 20th century archeology in the Near East with attention to its importance for Biblical studies.

**REL 315. Field Research in Biblical Archeology. (3 h)**

A study of the religion and culture of the ancient Near East through the excavation and interpretation of an ancient site.

**REL 316. Field Research in Biblical Archeology. (3 h)**

A study of the religion and culture of the ancient Near East through the excavation and interpretation of an ancient site.

**REL 317. Wisdom Literature. (3 h)**

An examination of the development, literary characteristics, and theological contents of the works of ancient Israel's sages.

**REL 318. Feminist and Contemporary Interpretations of the New Testament. (3 h)**

A study of feminist and contemporary approaches to the New Testament in light of the history of New Testament interpretation and a range of contemporary concerns and interpretive contexts.

**REL 320. The Search for Jesus. (3 h)**

A study of issues, assumptions, evidence, and debate that shapes the continuing quest for the historical Jesus.

**REL 323. Jesus Traditions. (3 h)**

Examines ancient Christian and other religious representations of Jesus in historical, social, cultural, and theological context.

**REL 324. Early Christian Literature. (3 h)**

An examination of various literatures and perspectives of the first three centuries of the Christian movement.

**REL 328. Jewish-Christian Relations and the New Testament. (3 h)**

Study of Jewish-Christian relations and selected writings of the New Testament in the historical, social, religious and political contexts of ancient Judaism and emerging Christianity. Focus varies with instructor.



**REL 329. Chinese Medicine. (3 h)**

An interdisciplinary exploration and analysis of Chinese medicine, its fundamental theories, and its range of health-oriented and religious applications. (CD)

**REL 330. Pope, Jefferson and Imam: A Study in Comparative Ethics. (3 h)**

A comparative study of the moral values and socio-ethical positions in the major religious traditions of the world, with particular focus on their various methods of reasoning and sources of authority.

**REL 331. Religion and Law. (3 h)**

A study of religion and law as distinct yet interdependent spheres that influence cultural negotiations about authority, power, identity and the regulation of society. Geographic and tradition-specific focus may vary with instructor.

**REL 332. Religion and Public Engagement. (3 h)**

Examines the interface between religious communities and the public sphere, and the potential for social change in contemporary global and local contexts through a range of readings, guest lectures, field trips, and films. Traditions and emphasis may vary with instructor.

**REL 335. Religious Ethics and the Problem of War. (3 h)**

An examination of the causes and characteristics of war, various religious responses to it, and approaches to peacemaking, with attention to selected contemporary issues.

**REL 336. Religious Traditions and Human Rights. (3 h)**

A study of relationships and tensions between religious traditions and human rights, with illustrations from historical and contemporary issues and movements.

**REL 338. Religion, Ethics, and Politics. (3 h)**

An examination of ethical issues in religion and politics using materials from a variety of sources and historical periods.

**REL 339. Religion, Power, and Society in Modern Africa. (3 h)**

An interdisciplinary study of the growth transformations of Africa's major religious traditions (Christianity, Islam, and the indigenous religions), and of their relations with secular social changes. (CD)

**REL 341. Religion and Ecology. (3 h)**

Cross-cultural examination of the relationships among human beings, their diverse cultures, habitats, and religions, including social and political understandings of the environment.

**REL 342. Religious Intolerance in the U.S. (3 h)**

Study of the various manifestations of religious intolerance in the United States from the colonial period until the present.

**REL 343. Religion, Culture, and the Body. (3 h)**

A cross-cultural, multi-disciplinary-exploration of the body as a malleable locus of contested ideals that informs personal, social, and religious identity formation. (CD)

**REL 344. Religion, Poverty, and Social Entrepreneurship. (3 h)**

Interdisciplinary study of major themes in religion, poverty reduction, and social entrepreneurship. Focus and community emphasis may vary with instructor. Also listed as ENT 322.

**REL 345. The African-American Religious Experience. (3 h)**

Exploration of the religious dimensions of African-American life from its African antecedents to contemporary figures and movements. (CD)

**REL 346. Religious Utopias and the American Experience. (3 h)**

Surveys a range of such 18th- and 19th-century utopian communities, including Moravians, Rappites, Shakers, and the Oneida and Amana colonies. Also listed as HST 381.

**REL 347. Religion, Gender, & Sexuality. (3 h)**

Explores how "religion" regulates and normalizes gender and sexuality.

**REL 348. Race, Memory, and Identity. (3 h)**

Explores the collective memory and identity of American-Indian and African-American communities and their response to historical trauma in their cultural imagination, spirituality, and political and social activism. Also listed as HST 378. (CD)

**REL 349. Asian Meditation Practices. (3 h)**

Introduces and examines theoretical and practical aspects of various forms of Eastern meditation (concentration, mindfulness, Zen, visualization, and moving energy work) from both practitioner and modern scientific perspectives. (CD)

**REL 351. Sociology of Religion. (3 h)**

Introduction to the sociological analysis of religion, including religious beliefs and experiences, the cultural context of religion, varieties of religious organization, religious change and social change. Also listed as Sociology 301.

**REL 355. Jewish Identities: Religion, Race, and Rights. (3 h)**

Examines how evolving definitions of race, religion, and Jewishness have correlated and conflicted in varied and sometimes surprising ways and how these shifts have been tied to legal rights and social privileges. (CD)

**REL 356. Faces of Modern Judaism. (3 h)**

Examines contemporary expressions of Judaism and its historical roots. (CD)

**REL 357. Jews in the United States. (3 h)**

Examines Jewish American histories, experiences, and identities and their impact on American society as a whole.

**REL 359. Hinduism in America. (3 h)**

A study of the meanings, values, and practices associated with the religions of Hinduism in dialogue with the dominant culture of America. (CD)

**REL 360. Hindus, Muslims, & Sikhs in North America. (3 h)**

Examines the racialization of Hinduism, Islam, and Sikhism in North America using a postcolonial and intersectional approach.

**REL 361. Topics in Buddhism. (3 h)**

Variable topics in Buddhist history, thought, and/or practice. May be repeated for credit if topic varies. (CD)

**REL 362. Topics in Islam. (3 h)**

Variable topics in Islamic history, thought, and/or practice. May be repeated for credit if topic varies. (CD)

**REL 363. The Religions of Japan. (3 h)**

A study of the central religious traditions of Japan from pre-history to the present, including Shinto, Buddhism, Zen Buddhism, Christianity, and Confucianism. (CD)

**REL 364. Topics in U.S. Religious History. (1.5-3 h)**

Variable topics in U.S. religious history, thought, and/or practice. May be repeated for credit if topic varies.

**REL 365. History of Religions in America. (3 h)**

A study of American religions from colonial times until the present.

**REL 367. Christian Mysticism. (3 h)**

Study of Christian mysticism and contemplation (spirit possession, visions, dreams, and meditation) and their relation to contemporary issues.

**REL 368. Protestant and Catholic Reformations. (3 h)**

A study of the origin and development of Reformation theology and ecclesiology.

**REL 369. Radical Christian Movements. (3 h)**

A study of selected radical movements in the Christian tradition and their relation to contemporary issues.

**REL 372. History of Christian Thought. (3 h)**

A study of recurring patterns in Christian thought across time and cultures and some of the implications of those patterns in representative ancient and modern Christian figures.

**REL 373. Special Topics in African-American Religious Traditions. (3 h)**

Variable topics in African-American religious traditions. May be repeatable for credit if topic varies. (CD)

**REL 374. Black Messiahs and Uncle Toms. (3 h)**

Examines the cultural and religious history of black leadership in the United States. (CD)

**REL 375. Race, Myth, and the American Imagination. (3 h)**

A study of myth and mythology in relation to the racial imaginary in America. (CD)

**REL 376. Race, Religion, and Film. (3 h)**

Examines past and contemporary filmmakers who couple religious themes with racial concerns. (CD)

**REL 378. Latin American Liberation Theologies. (3 h)**

Historical, contextual, and theoretical survey of various forms of Latin American liberation theology, a school of Christian thought that both critiques systems of oppression and offers proposals for a more just and peaceful future.

**REL 381. Zen Buddhism. (3 h)**

Examines the origins and development of Zen Buddhism from China (Ch'an) to Japan and contemporary America. Attention is given to Zen doctrine and practice in the context of the broader Buddhist tradition. (CD)

**REL 382. Religion and Culture in China. (3 h)**

A thematic study of Chinese religious culture focusing on history, ritual, scripture, and popular practice. Additional topics will include cosmology, ancestor veneration, shamanism, divination, and the role of women. (CD)

**REL 383. The Quran and the Prophet. (3 h)**

Examines the history, content, and main approaches to the sacred book of Islam. Explores the influence and interaction between the holy word and its transmitter the Prophet Muhammad. (CD)

**REL 384. Islam and Law: Varieties in Interpretation and Expression. (3 h)**

Explores main tenets of the Islamic law (Shari'ah) and how this law has been applied in past and present Islamic societies. Looks at legal issues through the lens of gender, ethics, non-Muslim minorities, rights, and duties. (CD)

**REL 385. Topics in South Asian Religions. (3 h)**

Variable topics in the religions of South Asia. May be repeated for credit if topic varies. (CD)

**REL 386. Indian Epics. (3 h)**

Examines one or both Indian epics, the Mahabharata and Ramayana, while paying attention to either epic's religious, social, and political contexts, performance, and development in Indian history. (CD)

**REL 387. Priests, Warriors and Ascetics in Ancient India. (3 h)**

Introduces students to the history, culture, and ritual traditions of ancient India by examining the overlapping practices, beliefs, ideologies, and gendered representations of priests, warriors, kings, and ascetics. (CD)

**REL 388. South Asian Women: Religion, Culture and Politics. (3 h)**

Examines the intersection of religion, race and gender of South Asian women from a feminist and postcolonial perspective. (CD)

**REL 389. Islam in the West: Changes and Challenges. (3 h)**

Explores issues of identity, ethnicity and religion within various Muslim communities living in western countries. A central goal is to understand how these communities negotiate the new environment and the challenges they face.

**REL 390. Special Topics in Religion. (1.5-3 h)**

Religion topics of special interest. May be repeated for credit. Group I-III with department approval. P-POI.

**REL 391. Topics in East Asian Religions. (3 h)**

Variable topics in the religions of China, Korea, and Japan. May be repeated for credit if topic varies. (CD)

**REL 392. Topics in First Peoples' Traditions. (3 h)**

Variable topics in the religions of American Indian and Canadian First Nations. May be repeated for credit if topic varies. (CD)

**REL 393. Topics in Religions of Africa. (3 h)**

Variable topics in the religions of Africa or African diaspora. May be repeated for credit if topic varies. (CD)

**REL 395. Exploring Interfaith Practice and Leadership. (3 h)**

This online course on interfaith leadership invites students to consider how they might engage most effectively with people from a variety of religious backgrounds. POI.

**REL 396. Interreligious Encounters & Engagements. (3 h)**

Surveys the history of dialogue activities among various religious communities and introduces the methods and theories of interreligious dialogue. Part of this class is interaction with local interfaith projects.

**REL 398. Honors in Religion. (3 h)**

Directed study and research in preparation for writing and completing an honors thesis. P - Admission to the honors program in the Study of Religions.

**REL 399. Senior Colloquy. (1 h)**

This 1-hour capstone course, required for senior majors, is structured around writing and reflection on the major through readings, discussions, and portfolio development. Pass/fail only.

## Russian & E. European Studies (REE)

**REE 200. Introduction to Russian and East European Studies. (3 h)**

An interdisciplinary survey of Russia and the Soviet Union, including an examination of society, polity, economy and culture over time. Also listed as HST 232. Students taking REE 200/HST 232 cannot receive credit for HST 230 or 231. (CD).

## Russian (RUS)

**RUS 111. Elementary Russian I. (4 h)**

The essentials of Russian grammar, conversation, drill, and reading of elementary texts.

**RUS 112. Elementary Russian II. (4 h)**

The essentials of Russian grammar, conversation, drill, and reading of elementary texts. P-RUS 111 or equivalent.

**RUS 153. Intermediate Russian. (4 h)**

Principles of Russian grammar are reviewed and expanded upon; reading of short prose pieces and materials from the Russian press. P-RUS 112 or equivalent.

**RUS 210. Russians and Their World. (3 h)**

Introduction to Russian culture and society, with topics ranging from history, religion, art and literature to contemporary Russian popular music, TV and film. Taught in Russian. P-RUS 153 or equivalent.

**RUS 212. Introduction to Russian Literature. (3 h)**

Reading of selected short stories and excerpts from longer works by Russian authors from the 19th century to the present. P-RUS 153 or equivalent.

**RUS 317. Seminar in Russian Literature. (3 h)**

In-depth reading and discussion of shorter works of poetry and prose by the foremost Russian authors from the 19th century to the present. P-RUS 212.

**RUS 321. Conversation and Composition. (3 h)**

Intensive practice in composition and conversation based on contemporary Russian materials. P - RUS 210 or 212.

**RUS 328. Advanced Grammar. (3 h)**

Mastery of Russian declension and conjugation, with special attention to the correct use of reference materials. Syntax of complex and problematic sentences. P-RUS 321.

**RUS 330. Structure of Russian. (3 h)**

The linguistic tools of phonetics, phonemics, and morphophonemics are explained and applied to modern Russian. Emphasis on the study of roots and word formation. P-POI.

**RUS 332. The History of Russian Language. (3 h)**

The evolution of Russian from Common Slavic to the modern language; theory of linguistic reconstruction and the Indo-European family; readings from selected Old East Slavic texts. P-RUS 321 and POI.

**RUS 335. Russian Culture and Civilization. (3 h)**

Survey of Russian culture and civilization with emphasis on contemporary events, politics, and music and art. Conducted in Russian. Offered spring. P-RUS 321 or POI.

**RUS 340. Seminar in Translation. (3 h)**

Advanced work in English-to-Russian and Russian-to-English translation. P-RUS 321 and POI.

**RUS 341. Russian Literature in Translation. (3 h)**

Reading and discussion of selected works from Russian literature in English translation by such writers as Gogol, Dostoevsky, Tolstoy, Bulgakov, and Solzhenitsyn. (D)

**RUS 345. Special Topics in Russian. (3 h)**

P-RUS 321, and Permission of Instructor.

**RUS 354. Language of the Russian Press and Mass Media. (3 h)**

Readings from Russian newspapers, magazines and the Internet, as well as exposure to Russian television and radio broadcasts. Emphasis is on improving reading and listening skills and vocabulary acquisition. P-RUS 212 or POI.

**RUS 370. Individual Study. (1.5-3 h)**

Study in language or literature beyond the RUS 210-212 level. May be repeated for credit. P-RUS 212.

**RUS 387. Honors in Russian. (2.5 h)**

Conference course in Russian literature or culture. A major research paper is required. Designed for candidates for departmental honors.

**RUS 388. Honors in Russian. (2.5 h)**

Conference course in Russian literature or culture. A major research paper is required. Designed for candidates for departmental honors.

## Sanskrit (SKT)

**SKT 111. Intro to Sanskrit. (3 h)**

Two-semester sequence designed to introduce students to classical Sanskrit with emphasis on the basic principles of grammar, syntax, historical linguistics, and the reading of classical Indian texts. On Request.

**SKT 112. Intro to Sanskrit. (3 h)**

Two-semester sequence designed to introduce students to classical Sanskrit with emphasis on the basic principles of grammar, syntax, historical linguistics, and the reading of classical Indian texts. On Request.

## Self Instructional Language (SIL)

**SIL 101. Self Instructional Language. (3 h)**

A course in which students wishing to learn a language not offered at Wake Forest may arrange to study the language in consultation with a native speaker. This course does not count toward the linguistics minor without approval from the coordinator. Pass/Fail only. P-POI.

**SIL 102. Self Instructional Language. (3 h)**

A course in which students wishing to learn a language not offered at Wake Forest may arrange to study the language in consultation with a native speaker. This course does not count toward the linguistics minor without approval from the coordinator. Pass/Fail only. P-POI.

## Sociology (SOC)

**SOC 150. Analyzing the Social World. (3 h)**

Introduction to key findings and explanatory concepts in sociology through exploring large-scale data sets. Topics may include stratification by socio-economic status, gender, race, and sexual identity. (D, QR)

**SOC 151. Principles of Sociology. (3 h)**

General introduction to the field; social organization and disorganization, socialization, culture, social change, social inequality, and other aspects. (D)

**SOC 152. Social Problems. (3 h)**

Survey of contemporary American social problems such as domestic and international poverty, education, immigration, crime and mass incarceration. (D)

**SOC 153. Contemporary Families. (3 h)**

The social basis of the family, emphasizing the problems growing out of modern conditions and social change. (D)

**SOC 154. The Sociology of Deviant Behavior. (3 h)**

A sociological analysis of the nature and causes of and societal reaction to deviant behavior patterns such as mental illness, suicide, drug and alcohol addiction, sexual deviation, and criminal behavior. (D)

**SOC 155. Public Engagement in USA and Other Post-industrial Societies. (3 h)**

An introduction to core concepts and explanations in social science for differences between the US and other nations on civic engagement, social mobility, educational attainments, public health, and leisure pursuits. (CD, D)

**SOC 270. Sociological Theory. (3 h)**

Introduction to classic and contemporary works of social theory, illustrating and exploring how sociologists analyze social forces, evaluate explanatory hypotheses, and prescribe social remedies. Authors explored range from the 19th century founding figures of Karl Marx, Max Weber, and Emile Durkheim, to contemporary theorists such as Ervin Goffman, Patricia Collins, Judith Butler, Michel Foucault, and Pierre Bourdieu. P - Any 100 level SOC course or POI.

**SOC 271. Social Statistics. (4 h)**

Computer-based survey of basic statistics utilized in sociological research. STA 111 (Elementary Probability and Statistics) or higher is strongly recommended as a prior course. Lab-1 hour. P-Any 100 level SOC course or POI. (QR)

**SOC 272. Research Methods in Sociology. (3 h)**

Overview of both quantitative and qualitative research methods. Research projects required. P - Any 100 level SOC courses or POI.

**SOC 301. Sociology of Religion. (3 h)**

Introduction to the sociological analysis of religion, including religious beliefs and experiences, the cultural context of religion, varieties of religious organization, religious change and social change. Also listed as REL 351.

**SOC 303. Business and Society. (3 h)**

Historical development, organization, and current problems of business enterprises in American society.

**SOC 305. Gender in Society. (3 h)**

The significance of gender in society for individuals and institutions. An examination of differential gender experiences based on race, class, and sexual orientation. Consideration of feminism as a social movement and the possibility for social change. (CD)

**SOC 308. Sociology of Art. (3 h)**

Art as an institution, its functions, organization, relationship to social change and to the communication of meanings.

**SOC 309. Sexuality and Society. (3 h)**

Study of the societal forces that impinge on human sexual behavior, emphasizing the effects of social change, the implications of changing gender roles, cross-cultural and subcultural variations, and the influence of the mass media.

**SOC 316. Conflict Management in Organizations. (3 h)**

An examination of conflict management and social control in organizations, focusing on power structures, management styles and processes of dispute resolution.

**SOC 320. Sociology of Sports and Art Worlds. (1.5 h)**

Seminar on social forces that structure the production and consumption of sports and the arts. Topics may include differences between American and world football; how culture capital determines engagement with the arts.

**SOC 321. Sociology of Contested Past. (1.5 h)**

Seminar on how societies remember their past and why it matters to contemporary social relations. Topics include cases studies of commemorative practices on the Nazi Holocaust, America's Civil War, and the relationship of American universities to slavery.

**SOC 325. The Individual and Society. (3 h)**

Introduces students to the field of sociological social psychology. Examines (1) how membership in social groups shape experiences; (2) the development of the self in social interaction; and (3) the creation of small group culture and structure. Also covers a range of substantive topics such as socialization, identity, emotions, prejudice, deviance, mental health and social change.

**SOC 327. Sociology of Emotion. (3 h)**

Exploration of the social side of emotion, including how emotions are socially learned, shaped, regulated, controlled and distributed in the population as well as the consequences of emotion norms, emotion management, emotional labor, and emotional deviance for individuals, social groups and society. P-one SOC course or POI.

**SOC 328. The Sociology of Food. (3 h)**

Examines systems of food production and their health consequences for workers and consumers; how social identities shape consumption choices and family food responsibilities; and analyzes food insecurity, food policy, and food-focused social movements from a sociological perspective.

**SOC 329. Health Inequalities. (3 h)**

Introduction to current sociological perspectives on the health and well-being of individuals, families, communities, and societies by examining the social determinants of inequalities in both mental and physical health (including reproductive health) based on socioeconomic status, gender, and race/ethnicity in the U.S. P-one SOC course or POI.

**SOC 330. Gender, Social Relationships, and Well-Being. (3 h)**

Examines how and why gender continues to shape men's and women's social relationships, including their social and economic well-being, their emotions and identities, as well as their mental and physical health over the life course. P-one SOC course or POI.

**SOC 331. The Social and Legal Contexts of Medicine. (3 h)**

Examines student socialization, the social structure of medicine and the social and legal contexts in which the medical profession exists and changes.

**SOC 334. Sociology of Education. (3 h)**

An evaluation of the major theories and significant empirical literature, both historical and statistical, on the structure and effects of educational institutions.

**SOC 335. Sociology of Health and Illness. (3 h)**

Examines processes of medicalization, the social experience of illness, cultural influences on the practice of medicine, and inequalities in access to care and resources to support health.

**SOC 336. Sociology of Healthcare. (3 h)**

Analyzes healthcare systems, including the social organization of medical practice, healthcare payment, the education of medical practitioners, and the division of the labor in healthcare.

**SOC 338. Courts and Criminal Procedure in the Era of Mass Incarceration. (3 h)**

An overview of the socio-organization of criminal courts and procedure in the US. The course examines the structure of courts, and questions how conceptualizations of justice and relationships of power have developed over time.

**SOC 339. Family Violence. (3 h)**

Examines family violence including child abuse, intimate partner violence, and elder abuse as well as the criminal justice response to these forms of violence.

**SOC 340. Corrections. (3 h)**

Surveys the political, economic and social factors influencing the historical development of the corrections system. Institutional corrections such as jails, boot camps and prisons will be examined as well as community-based approaches such as probation and parole.

**SOC 341. Criminology. (3 h)**

Introduction to the study of crime, including the development of criminal law, how crime is defined and measured, the patterns and trends of crime, and a review of theories explaining where, when, by whom and against whom crime happens.

**SOC 342. Juvenile Delinquency. (3 h)**

Examines the development of the juvenile justice system. Topics include the concept of childhood and delinquency, measurement of delinquent behavior, gender differences, the impact of relationships within the family, school, and peer groups, and an assessment of policies for control and prevention.

**SOC 343. Law and Society. (3 h)**

Study of the social and cultural factors in the development, maintenance, and change of legal structures and processes. Topics include law as a vehicle and agent of social change, the role of law in social control and dispute resolution, the structure and organization of the legal profession, and the images of law in popular culture.

**SOC 344. Social Justice in Theory, Method, and Practice. (3 h)**

Explores relationships between knowledge production, academic research, and social activism by surveying social science and humanities theory, research methods, and practice oriented toward social justice. Topics include critical theory, community-based research, and contemporary social movements.

**SOC 345. Advanced Seminar on Criminal Homicide. (3 h)**

Examines the various cultural and structural forces that have been identified as major factors in understanding criminal homicide.

**SOC 346. Sociology of Guns. (3 h)**

Examines the multifaceted roles guns play in the U.S. from a sociological perspective. Topics include the history and technology of firearms, origins and development of the 2nd Amendment to the U.S. Constitution, prevalence and distribution of guns, lawful possession and use of firearms, illegal gun markets, gun crime and injuries, gun politics and the efficacy of gun control.

**SOC 347. Society, Culture, and Sport. (3 h)**

An examination of the interrelationship of sport and other social institutions. Emphasis on the study of both the structure of sport and the functions of sport for society.

**SOC 348. Sociology of the Family. (3 h)**

The family as a field of sociological study. Assessment of significant historical and contemporary writings. An analysis of the structure, organization, and function of the family in America.

**SOC 351. Management and Organizations. (3 h)**

A study of macro-organizational processes and changes in contemporary industrial societies and their effects upon managerial systems, managerial ideologies and managers in firms.

**SOC 352. White-collar Crime. (3 h)**

Study of criminal activity committed in the course of legitimate occupations including workplace crime, graft, and business crime.

**SOC 354. Women in Poverty in the U.S.. (3 h)**

An examination of the structural causes of poverty and its consequences, with specific emphasis on women's overrepresentation in poverty and how gender intersects with race, family status, age, and place.

**SOC 355. Social Psychology of Inequality. (3 h)**

Introduction to social psychological perspectives on social inequality with a focus on microlevel structures and processes underlying inequality including gender, age, race/ethnicity, as well as socioeconomic and sexual minority status. P-one SOC course or POI.

**SOC 356. Sociology of Immigration. (3 h)**

Traces the waves of immigration historically and examines current policies and debates, with an emphasis on the political, economic, and social consequences of immigration in the post 1965 era. The focus will be on the United States, but will also consider cross-national comparisons. (CD)

**SOC 359. Race and Racism. (3 h)**

Examines the origins and effects of racial inequality and relationships between race and ethnic groups with a focus on the United States. (CD)

**SOC 360. Social Inequality. (3 h)**

The study of structured social inequality with particular emphasis on economic class, social status, and political power. (CD)

**SOC 362. Work, Conflict, and Change. (3 h)**

Changing trends in the United States labor force. The individual's view of work and the effect of large organizations on white- and blue-collar workers. Use of some cross-cultural data.

**SOC 363. Global Capitalism. (3 h)**

An analysis of industrial organization, including discussion of market relations and the behavior of firms, the structure of industrial development, and labor relations and the growth of trade unions. Also listed as INS 363.

**SOC 364. Power, Politics, and Protest. (3 h)**

Analyzes the interactions between politics, the state and society. Topics include public and social policies, political engagement and social movements, and social change.

**SOC 365. Technology, Culture, and Change. (3 h)**

Examines the interrelated forces that shape change in organizations and societies; from the emergence of capitalist markets to the systems, controls, and information revolution of the 21st century. Also listed as INS 365.

**SOC 366. Sociological Analysis of Film. (3 h)**

Examines the intersection of economic, organizational, and cultural sociology using films and the film industry as focal examples.

**SOC 367. Sociology of Culture. (3 h)**

Examines the most powerful explanatory schools in sociology in the fields of cultural production and consumption. Topics include: stylistic change and the consumption of visual and performance arts; musical tastes; the production and consumption of literature; museum attendance; education and culture; and architecture and design.

**SOC 368. Death and Dying. (1.5 h)**

Analyzes how the experience of physical decline is socially and medically managed, and the role social rituals play in the aftermath of death and grief.

**SOC 369. Social Movements. (3 h)**

Examines social movements and public protest with a focus on why movements arise, how they operate, and what effects they have on participants and on society.

**SOC 380. Special Topics Seminar in Social Institutions. (3 h)**

Intensive investigation of current scientific research on issues involving family, religion, education, politics, and sport.

**SOC 381. Special Topics Seminar in Social Inequality. (3 h)**

Intensive investigation of current scientific research on issues involving gender, class, race, poverty, and sexuality.

**SOC 382. Special Topics Seminar in Social Psychology. (3 h)**

Intensive investigation of current scientific research on issues in the areas of social psychology, the individual, and the social self.

**SOC 383. Special Topics Seminar in Medicine and Health Care. (3 h)**

Intensive investigation of current scientific research on issues in medicine, illness, and health care.

**SOC 384. Special Topics Seminar in Crime and Criminal Justice. (3 h)**

Intensive investigation of current scientific research on issues about crime, police, courts, and corrections.

**SOC 385. Special Topics Seminar in Business and Society. (3 h)**

Intensive investigation of current scientific research on issues in business, work markets, and management .

**SOC 386. Special Topics Seminar in Culture and Social Movements. (3 h)**

Intensive investigation of current scientific research on issues involving, culture, social change, and social movements.

**SOC 390. Special Topics Seminar in Sociology. (1.5-3 h)**

Survey of a selected area in sociology not covered in the regular course offerings. Prospective students should contact the professor before enrolling as topics will vary.

**SOC 391. Special Topics Seminar in Sociology. (1.5-3 h)**

Survey of a selected area in sociology not covered in the regular course offerings. Prospective students should contact the professor before enrolling as topics will vary.

**SOC 394. Research with Faculty. (0.5-3 h)**

Awards credit to students assisting with a research project led by a faculty member. Students can earn a maximum of six credits (pass/fail) between SOC 394 and 395, but only three credits can be counted toward the major or minor. P-POI.

**SOC 395. Research with Faculty. (0.5-3 h)**

Awards credit to students assisting with a research project led by a faculty member. Students can earn a maximum of six credits (pass/fail) between SOC 394 and 395, but only three credits can be counted toward the major or minor. P-POI.

**SOC 398. Individual Study. (1-3 h)**

Reading, research, or internship courses designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member.

**SOC 399. Individual Study. (1-3 h)**

Reading, research, or internship courses designed to meet the needs and interests of selected students, to be carried out under the supervision of a departmental faculty member.

## Spanish (SPA)

**SPA 111. Elementary Spanish I. (3 h)**

A two-semester sequence designed to help students develop the ability to understand and speak Spanish and also learn to read and write Spanish at the elementary level. Labs required.

**SPA 112. Elementary Spanish II. (3 h)**

A two-semester sequence designed to help students develop the ability to understand and speak Spanish and also learn to read and write Spanish at the elementary level. P-SPA 111 or equivalent. Labs required.

**SPA 113. Intensive Elementary Spanish. (4 h)**

A course reviewing the material of SPA 111-112 in one semester, intended for students whose preparation for SPA 153 is inadequate. Credit not given for both SPA 113 and SPA 111 or 112. Labs required. By placement or faculty recommendation.

**SPA 153. Intermediate Spanish. (4 h)**

Intermediate-level course covering the structure of the language, developing students' reading, writing, and conversation skills and preparing them for oral and written discussion of readings. Note that SPA 153 and 154 are mutually exclusive. Labs required. P—SPA 111-112, or 113; or placement.

**SPA 153S. Intensive Beginning and Intermediate Spanish in an Immersion Setting. (5 h)**

Designed to enable students to achieve proficiency in Spanish language at the beginning-intermediate level by developing reading, writing, and conversation skills and preparing students for oral and written discussion of readings. Offered only in the summer. (ISLI) P—SPA 112 or 113; or placement; or POI.

**SPA 154. Accelerated Intermediate Spanish. (3 h)**

An intensive, intermediate-level course intended for students with a stronger background than 153 students. It offers the opportunity to develop further their reading, writing, and conversation skills and prepare for oral and written discussion of readings. Labs required. P-POI or placement.

**SPA 195. Spanish Language and Culture. (1-3 h)**

Spanish vocabulary, grammar, and culture. Offered only in Wake Forest study abroad programs. P-POI.

**SPA 197. Spanish for Reading Knowledge. (1.5 h)**

Review of essential Spanish grammar, usage, vocabulary and processing strategies for reading various types of literary, social science and technical publications for content. Designed for students interested mainly in strengthening reading proficiency in the language, and aimed at preparing students to take the graduate reading exam administered at the end of the course. Undergraduate credit given. Offered in the first half of the semester. Pass/Fail only. P-Intermediate Spanish or its equivalent, and placement exam.

**SPA 198. Service Learning in Spanish Language. (1.5 h)**

Experiential learning that links classroom instruction and community service done as an adjunct to specially-designated courses throughout the Spanish curriculum. Pass/Fail only. May be repeated for credit. P-POI.

**SPA 199. Internship in Spanish Language. (1.5, 3 h)**

Under faculty direction, a student undertakes a language project in conjunction with a service commitment or internship in a Spanish-speaking country. Includes, but is not limited to, vocabulary building, keeping a journal, and reading professional material. Offered only in Salamanca. May be repeated for credit. Pass/fail only. P - SPA 309 or 309L; or POI.

**SPA 212. Exploring the Hispanic World. (3 h)**

Explores significant cultural expressions from the Spanish-speaking world. Emphasizes both the development of competence in speaking, reading and writing Spanish, and understanding how particular Hispanic societies have defined themselves. Credit not allowed for both SPA 212 and 213. P—SPA 153; or equivalent.

**SPA 213. Encounters: Hispanic Literature and Culture. (4 h)**

Encounters with significant literary expressions from the Spanish-speaking world. Emphasizes the advancement of competence in speaking, reading and writing, and the analysis of literature in its cultural contexts. Credit not allowed for both 213 and 212. P—SPA 153 or equivalent.

**SPA 280. The Spanish-Speaking World: Portals and Perspectives. (3 h)**

Examination of the diversity of cultural, linguistic, and artistic expressions and the role of Spanish in today's globalized world. P—SPA 212 or 213; or POI; or placement.

**SPA 280L. The Spanish-Speaking World: Portals and Perspectives for Heritage Speakers. (3 h)**

Examination of the diversity of cultural, linguistic, and artistic expressions and the role of Spanish in today's globalized world. Open to heritage speakers of Spanish only. P-SPA 212 or 213; or POI; or placement.

**SPA 290. Workshop in Critical Reading and Writing. (3 h)**

Practice in language analysis with emphasis on developing effective reading and writing strategies. Not open to students who have already completed 7 hours in the major. P-SPA 212 or 213; or POI.

**SPA 300A. Spanish Across the Curriculum. (1.5 h)**

Course work in Spanish done as an adjunct to specially-designated courses throughout the college curriculum. May be taken for grade or Pass/Fail. May be repeated for credit. P-POI.

**SPA 300B. Spanish Across the Business/Economics Curriculum. (1.5 h)**

Coursework in Spanish done as an adjunct to specifically-designated courses in business and economics curriculum. May be repeated for credit. P-POI.

**SPA 300C. Spanish Across the Sciences Curriculum. (1.5-3 h)**

Coursework in Spanish done as an adjunct to specifically-designated courses in the sciences and medical curriculum. May be repeated for credit. P-POI.

**SPA 301. Intensive Spanish. (1.5 h)**

Intensive study and practice of the oral and written languages. Familiarization with Spanish culture and daily life. Classes in conversational and idiomatic Spanish, excursions to points of interest and lectures on selected topics. Pass/Fail only. Does not count towards the major or minor.

**SPA 303. Spanish Conversation. (3 h)**

Based on cultural material intended to increase students' aural skills and oral proficiency by systematically increasing vocabulary and reinforcing command of specific grammatical points. Counts toward the major. Students whose speaking skills, in the instructor's judgment, are already advanced, may not enroll. P—200-level course or equivalent.

**SPA 303I. Language Study in the Context of an Internship. (1.5, 3 h)**

Development of oral proficiency and writing skills. Reading, discussions, and writing assignments based on texts relevant to internships being undertaken by students. Must be taken in conjunction with SPA 199. The combinations of this course and SPA 199 may count as a maximum of 3 hours toward the major or minor. P - a 200-level course.

**SPA 304. Selected Topics in Spanish Language and Hispanic Culture. (3 h)**

Topics vary. Offered only in Abroad Programs. May be repeated for credit when the topic changes. P - 200-level SPA course or equivalent.

**SPA 309. Grammar and Composition. (4 h)**

Systematic study of Spanish morphology, sentence structure, and expository usage applied to various kinds of composition, including description, narration, and argumentation. P— SPA 280 or equivalent.

**SPA 309L. Grammar and Composition for Heritage Speakers of Spanish. (4 h)**

Systematic study of Spanish orthography, word formation, sentence structure, and expository usage applied to various written forms. Emphasis on grammatical knowledge, vocabulary development, and extensive writing practice. Content and skills intended for heritage speakers who are competent in spoken Spanish but want to improve their writing skills. P—200-level course or equivalent and POI.

**SPA 310. Anecdotes, Bestsellers, Cuentos. The ABCs of Storytelling in the Spanish-Speaking World. (3 h)**

Traces the development of prose fiction and non-fiction, with special attention to signature movements, texts, and representative writers. P— SPA 280 or 290.

**SPA 311. Bard, Ballad, Bolero. Poetry, and Song in the Spanish-Speaking World. (3 h)**

Survey of poetry and music with study of representative examples from a variety of periods and countries. P—SPA 280 or 290.

**SPA 312. Page, Stage, and Performance. Theater and Drama of the Spanish-Speaking World. (3 h)**

Survey of theatrical productions and dramatic texts with study of representative examples from a variety of periods and countries. P— SPA 280 or 290.

**SPA 313. Lights, Camera, ¡Acción!. Cinema and Culture in the Spanish-Speaking World. (3 h)**

Traces the development of cinematic arts and industry, with special attention to signature movements, films, and directors and the representation of cultures on screen. P—SPA 280 or 290.

**SPA 315. The Making of Spain: Interdisciplinary Approaches to the Cultures of Spain. (3 h)**

Examination of Spain's cultural pluralism through visual arts, architecture, film, music, and literature from the medieval period to the present. P— SPA 280 or 290. (CD)

**SPA 316. Paradise in Perspective: An Interdisciplinary Approach to the Wider Caribbean. (3 h)**

Examination of Hispanic Caribbean cultures through visual arts, architecture, film, music, and literature from the pre-Columbian period to the present. P—SPA 280 or 290. (CD)

**SPA 317. Distant Neighbors: Interdisciplinary Approaches to Mexico and Central America. (3 h)**

Examination of Mexican and Central American cultures within today's global world through visual arts, architecture, film, music, and literature from the pre-Columbian period to the present. P - SPA 280 or 290. (CD)

**SPA 318. The Andes to Patagonia: Interdisciplinary Approaches to South American Culture. (3 h)**

Examination of Andean and Southern Cone cultures through visual arts, architecture, film, music, and literature from the pre-Columbian period to the present. P—SPA 280 or 290. (CD)

**SPA 319. Literary and Cultural Studies of Spanish America. (3 h)**

Study of selected major works of Spanish-American literature within their historical and cultural contexts. Emphasis on linguistic and political structures, intellectual currents, art, music, and film to promote understanding of Spanish America's historical development. Offered only in WFU abroad programs. P-SPA 280 or 290. (CD)

**SPA 320. Introduction to Hispanic Linguistics. (3 h)**

Survey of the core areas in Hispanic linguistics: phonetics, phonology, morphology, syntax, semantics, and language variation. Basic concepts and methodology of linguistic analysis as preparation for further study in the field. P—SPA 309 or 309L.

**SPA 322. Spanish pronunciation and Dialect Variation. (3 h)**

Description of, and practice with, the sounds, rhythm, and intonation of Spanish and the differences from English, with special attention to social and regional diversity. Strongly recommended for improving pronunciation. Meets a N.C. requirement for teacher certification. P—SPA 309 or 309L.

**SPA 325. Spanish for Business I. (3 h)**

Introduction to the vocabulary and skills necessary to perform effectively in Hispanic business settings. Emphasis on oral and written practices, reading, and intercultural knowledge of business practices. P-SPA 309 or 309L or POI.

**SPA 326. International Business: Spain/Latin America. (3 h)**

Study of characteristic features of Spanish and/or Latin American business culture. Focuses on communicating successfully in the world of Hispanic commerce and on acquiring an international view of current issues in business. Offered only in WFU abroad programs. P-SPA 309 or 309L or POI.

**SPA 327. Spanish for Business II. (3 h)**

Continued study of the discourse used in Hispanic business settings. Emphasis on oral and written business presentations, reading and analysis of case studies, and intercultural knowledge of the business world. P-SPA 309 or 309L or POI.

**SPA 328. Medical Spanish. (3 h)**

Study of terminology and sociocultural issues relevant to interlinguistic medical communication. Oral and written practice in the medical context. P - SPA 309 or 309L; or POI.

**SPA 329. Intermediate Topics in Literary and Cultural Studies. (3 h)**

Selected topics in Spanish and/or Spanish-American literature and culture offered at an intermediate level. Topics vary. Offered only in WFU abroad programs. May be repeated for credit when topic changes. P-SPA 280 or 290.

**SPA 330. The Debate about Woman in Late Medieval Spain. (3 h)**

Explores romantic love in the Iberian Peninsula in the 14th and 15th centuries focusing on the debate about woman as an index of the social changes happening at that moment. P— any course in SPA 310-SPA 319 sequence; or POI.

**SPA 331. Medieval Spain: A Cultural and Literary Perspective. (3 h)**

Examines literary, social, and cultural themes, such as: Quests and Discoveries, Pilgrimage and the Act of Reading, Images of Islam, The Judaic Tradition in Spanish Literature, and Spiritual Life and Ideal. P— any course in SPA 310-SPA 319 sequence; or POI.

**SPA 332. The Golden Age of Spain. (3 h)**

Close analysis of literary texts, such as *Lazarillo de Tormes*, and study of the history, art, politics, and economics of the 16th and 17th centuries, with emphasis on themes such as the writer and society, humanism, the picaresque, Catholic mysticism, and power and politics. P— any course in SPA 310-SPA 319 sequence; or POI.

**SPA 333. The Spain of Don Quijote. (3 h)**

Study of the novel *Don Quijote* and its film adaptations, with emphasis on the portrayal of gender roles and individual and collective identity. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 334. Voices of Modern Spain. (3 h)**

Study of the multifaceted cultural identity of contemporary Spain through different literary genres, art, and film. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 335. Love, Death, and Poetry. (3 h)**

Study of the representation of universal themes in Spanish poetry from different historical periods. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 336. Lorca, Dali, Bunuel: An Artistic Exploration. (3 h)**

Study of the relationship of these three Spanish artists through their writings, paintings, and films, respectively, and of their impact on the 20th century. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 337. Contemporary Theater from Spain. (3 h)**

Study of major dramatic works from Spain. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 338. Fashioning Class, Gender, and National Identity in 18th/19th-Century Spain. (3 h)**

Explores representations of social class, gender, and national identity in the literature and visual culture of Spain (fashion, illustrated press, etc.) of 18th/19th-Century Spain. Topics vary, but overarching themes may range from royal identity and Enlightenment to industrialization and middle-class culture. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 341. Latin American Historical Fiction: Memory, Myth, and Social Justice. (3 h)**

Introduction to the ways Latin American historical fiction has shaped public memory over the past five centuries. Representative novels, plays, poems, films, and short stories. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 342. From Colonial to Postcolonial Voices. (3 h)**

Exploration of twentieth- and twenty-first century literary, artistic, and cinematic adaptations of colonial stories of discovery by writers, artists, and filmmakers from Spain and Spanish America. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 343. Travel Literature. (1.5-3 h)**

Analyzes various cultural documents to ask questions such as: what do travelers report seeing, how do they describe their journeys and why? In the past and the present, how has travel literature influenced European perceptions of the Americas and vice versa? P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 344. The 18th- and 19th-century Periodical Press in Spain and Spanish America. (1.5-3 h)**

Explores the role of newspaper culture for Enlightenment projects. Topics include patriotism, national histories, natural histories, cultural critique, science and satire. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 345. The Transatlantic Civil War. (3 h)**

Exploration of the artistic and literary responses to the Spanish Civil War. Emphasis on the resulting cultural exchange among Spain, Latin America, and the United States. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 346. Transatlantic Transitions: Postdictatorship in Spain and the Southern Cone. (3 h)**

Examination of the intersections among trauma, memory, and culture in Spain, Argentina, Chile, and Uruguay during and after the rule of dictatorial regimes in the late twentieth century. Relates political needs for reconciliation, reconstruction, and remembrance to specific aesthetic strategies. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 347. Contemporary Theater in Spain and Spanish America. (3 h)**

Study of contemporary Peninsular and Spanish-American theater within its political, social, cultural, and aesthetic context. P-any course in SPA 310-SPA 319 sequence; or POI.



**SPA 348. Contemporary Women Novelists and their Female Characters. (3 h)**

Study of representative novels by women writers from Spain and Latin America, with emphasis on the representation of the female protagonist within her cultural context. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 349. Great Authors and Directors. (1.5-3 h)**

Study of works by a major Hispanic author or film director with attention to formative contexts as well as aesthetic, cultural, and socio-political legacies. May be repeated for credit when focus changes. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 350. Film Adaptations of Literary Works. (3 h)**

Study of the cinematic and literary discourses through major Spanish literary works from different historical periods and their film adaptation. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 351. Cinema and Society. (3 h)**

Exploration of a specific national or regional film history with particular attention to cinematic representations of social, political, and cultural contexts. May be repeated for credit when focus changes. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 355. Romantic Nationalism, Avant-garde Nihilism, and the Deconstruction of Utopia. (3 h)**

Study of Latin-American poetry, including symbolist, surrealist, and conversational poetry, "happenings," and artistic manifestoes. Politics, nation-building, liberation theology, and love are common themes. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 356. Transgressing Borders: Identity in Latin-American and U.S. Latino Cultures. (3 h)**

Socio-historical study of theories on culture, sexual politics, and race in relation to literary texts, lyrics of popular music, and art of Latin America and the diaspora. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 357. Spanish American Short Story. (3 h)**

Intensive study of the 20th-century Spanish-American short story with emphasis on major trends and representative authors, such as Quiroga, Rulfo, Borges, Cortázar, Donoso, and García Marquéz. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 358. Spanish-American Novel. (3 h)**

Study of the novel in Spanish America from its beginning through the contemporary period. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 359. Spanish-American Theater: From Page to Stage. (3 h)**

Study of the transition of a dramatic work from text to performance and the role of Spanish-American theater as a vehicle for cultural values and socio-political issues. Includes rehearsals for the public staging of selected one-act plays. Proficiency in Spanish and willingness to act on stage are required. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 360. Contemporary Theatre. (3 h)**

Study of major dramatic works from various Latin-American countries. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 361. Fictions of Mexican Revolution. (3 h)**

Explores 20th-century Mexican cultural production as it relates to the Mexican Revolution (1910-1920). Readings include novels, shorts stories, popular poetry, and historiographic texts. Attention to Mexican muralism and cinema, and special emphasis on relationships between literature, history, and contemporary politics. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 362. Masculinity in Mexican Cinema. (3 h)**

Explores representations of masculinity in contemporary Mexican film (1990-present) with attention to film genres, aesthetic movements, national and global sociopolitical contexts, and gender politics. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 363. Cultural and Social Entrepreneurship: Promotion of Latin American and Latino Societies. (3 h)**

Sparks interdisciplinary entrepreneurial thinking about careers in arts and educational organizations that both serve and promote Latino communities and provides the knowledge and skills to implement effective programming. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 364. Indigenous Literatures and Visual Arts in Latin America. (3 h)**

Study of the images, identities, and self-representations of contemporary indigenous societies in 20th- and 21st-century Latin America. Analysis and discussion of literary texts and visual arts. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 366. Advanced Topics in Literary and Cultural Studies. (3 h)**

Selected topics in Spanish and/or Spanish-American literature and culture offered at an advanced level. Topics vary. Offered only in WFU abroad programs. May be repeated for credit when topic changes. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 367. Cuban Literature. (3 h)**

Study of Cuban literature from the 18th century to the present: romanticism, modernism, naturalism, the avant-garde movement, and the post-Revolutionary period. Offered in Havana. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 368. Afro Cuban Cultural Expression. (3 h)**

Comprehensive study of Cuban culture with a concentration on the artistic manifestations of Afro-Cuban religions. Students study literature, art, film, music, and popular culture to analyze how Afro-Cuban culture constitutes national culture. Offered in Havana. Also listed as LAS 220C. P-any course in SPA 310-SPA 319 sequence; or POI. (CD)

**SPA 369. Special Topics in Literary and Cultural Studies. (1.5, 3 h)**

Selected special topics in Hispanic Spanish-American literature and culture. May be repeated for credit when topic changes. P-any course in SPA 310-SPA 319 sequence; or POI.

**SPA 370. History of the Spanish Language. (3 h)**

The development of Spanish from an early Romance dialect to a world language. Study of changes in the language's sounds, grammar, and vocabulary system, with a special focus on the effects of a cultural history and relationships with other languages. P-SPA 309 or 309L and (recommended) LIN 150/ANT 150, or SPA 320.

**SPA 371. Contrastive Spanish/English Grammar and Stylistics. (3 h)**

Advanced study of structure and style in a variety of Spanish texts, with an in-depth approach to idiomatic expressions and some back/cross translation exercises. P-SPA 309 or 309L and (recommended) LIN 150/ANT 150, or SPA 320.

**SPA 372. Acquisition of Spanish. (3 h)**

Comparative study of first language acquisition, adult second language acquisition, and heritage speaker bilingualism. Emphasis on stages of acquisition, influencing factors, and typical outcomes. P-SPA 309 or 309L; or POI.

**SPA 373. Language and Society. (3 h)**

An introduction to the study and methodologies of Spanish sociolinguistics. Emphasis on language and its interaction with socio-economic status, gender, age, ideology, governmental policy, and identity in Spanish-speaking communities. P-SPA 309 or 309L.

**SPA 379. Special Topics in Hispanic Linguistics. (3 h)**

Investigation of key areas in Spanish languages research, such as dialectology, history, language acquisition, and usage. May be repeated for credit. P-SPA 309 or 309L and (recommended) LIN 150/ANT 150, or SPA 320.

**SPA 380. Spanish for the Professions. (3 h)**

Spanish usage of a selected professional area. Emphasizes communication in typical situations and interactions, specialized vocabulary, cultural differences, and related technical readings in the subject matter. Topics offered from the following list: a. Health Occupations; b. Social Work; c. Law and Law Enforcement; d. Other (on demand). P-SPA 309 or 309L; and any course in SPA 310-SPA 329 sequence; and POI.

**SPA 381. Spanish Translation. (3 h)**

Introduces translation strategies through practice, with emphasis on Spanish into English. Focuses on translating in domains such as social science, computing, economics, the entertainment industry, banking, and journalism. P-SPA 309 or 309L; and any course in SPA 310-329 sequence; and SPA 371; or POI.

**SPA 382. Spanish/English Interpreting. (3 h)**

Introduces strategies of interpreting from Spanish into English, primarily. Intensive laboratory practice course to develop basic skills inconsecutive/escort/simultaneous interpreting. Some voice-over talent training is also included. P - SPA 309 or 309L; and any course in SPA 310-SPA 329 sequence; and senior standing or POI.

**SPA 383. Medical and Scientific Translation. (3 h)**

Introduces strategies for translation of documentation relevant to healthcare setting and scientific domains through applied projects. Study of textual conventions and creation of domain-specific resources to support translation process. P - SPA 309 or 309L; or POI.

**SPA 384. Internships for STL & SI. (1.5-3 h)**

Under faculty supervision, a student undertakes a translation/interpreting project at a translation bureau or translation department of a company/public organization. A community service-oriented internship is preferred for interpreting. Does not count toward major or minor. P-SPA 381 or 382.

**SPA 385. Special Topics in Translation. (3 h)**

Selected topics in Translation Studies ranging from translation theories and descriptive studies to applied translation and related areas such as, terminology, documentation and language industries, among other relevant fields. May be repeated if course content differs. P-SPA 309 or 309L; and any course in SPA 310-SPA 329, or SPA 371 or POI.

**SPA 386. Special Topics in Interpreting. (3 h)**

Selected topics in Interpreting Studies including different interpreting settings, specialized interpreting, terminology for interpreting. May be repeated if content differs. P-SPA 309 or 309L; and any course SPA 310-SPA 329 sequence, or SPA 371 or POI.

**SPA 387. Cultural Industries and Institutions in Spain and Spanish America. (3 h)**

Study of key cultural traditions and theories of art and cultural economics, focusing on international cooperation, business and law, and on the construction of intercultural and professional identities. P-SPA 309 or 309L; and any course in SPA 310-SPA 329 sequence, or SPA 371 or POI.

**SPA 388. Global Negotiation and Conflict-Management Skills in a Spanish-Speaking Setting. (3 h)**

Examines through case studies topics such as “power with” vs. “power over” in international negotiation strategies; negotiation power, influence, and trust in a Spanish and Spanish-American context; and cultural, situational, and social factors of virtual negotiations. P- SPA 309 or 309L; and any course in SPA 310-SPA 329 sequence, or SPA 371 or POI.

**SPA 390. International Business: Spain and Latin America. (3 h)**

Study of the most characteristic features of the economic and financial situation and perspectives in Spain and Latin America. Focuses on communicating successfully in the world of Hispanic business and on acquiring an international view of that world and its cultural differences. Counts as elective for the Spanish major. P-SPA 309 or 309L; or POI.

**SPA 391. Internship in Spanish for Business and the Professions. (1.5-3 h)**

Under faculty supervision, a student completes an internship in a bilingual business or professional setting. Does not count toward major or minor in Spanish. Pass/Fail only. P-SPA 309 or 309L; or POI.

**SPA 397. Spanish Independent Study. (1-3 h)**

P-POI.

**SPA 398. Honors Directed Reading and Research. (1.5 h)**

Required for honors in Spanish. P-POI.

**SPA 399. Honors Directed Writing. (3 h)**

Required for honors in Spanish. P-POI.

## Sports Medicine (SPM)

**SPM 201. Basic Athletic Training. (3 h)**

A study of the basic knowledge and skills in the prevention, treatment, and care of common athletic injuries.

**SPM 302. Advanced Athletic Training. (3 h)**

## Statistics (STA)

**STA 107. Explorations in Statistics. (3 h)**

Introduction to statistical literacy and the role of statistics in settings such as elections, medicine, sports, and the sciences. Topics vary by instructor. (D, QR)

**STA 111. Elementary Probability and Statistics. (4 h)**

Data collection and visualization, exploratory analysis, introductory probability, inference techniques for one variable, and statistical literacy. Lab. (D, QR)

**STA 175. Competitions. (1-3 h)**

Seminar designed for students who wish to participate in statistics and/or data analysis competitions. Not to be counted toward any major or minor offered by the department. May be repeated for credit. Pass/Fail only.

**STA 212. Statistical Models. (3 h)**

A project-oriented course emphasizing data analysis, with introductions to multiple and logistic regression, model selection, design, categorical data, data visualization, and statistical programming. P-A first course in statistics, such as STA 111, ANT 380, BIO 380, BEM 201 or 202, HES 262, PSY 311 or 312, SOC 271, or POI. (D, QR)

**STA 247. Design and Sampling. (3 h)**

Experimental designs, observational studies, survey design and estimation with stratified, cluster, and other sampling schemes. P-STA 111 or STA 212 or POI. (D)

**STA 279. Topics in Statistics. (1-3 h)**

Topics in statistics not considered in regular courses, or which continue study begun in regular courses. Content varies.

**STA 310. Probability. (3 h)**

Distributions of discrete and continuous random variables, sampling distributions. Covers much of the material on the syllabus for the first actuarial exam. Also listed as MST 357. P-MST 112 or POI. (D)

**STA 311. Statistical Inference. (3 h)**

Derivation of point estimators, hypothesis testing, and confidence intervals, using both frequentist and Bayesian approaches. P-STA 310 or MST 357 or POI. (D)

**STA 312. Linear Models. (3 h)**

Theory of estimation and testing in linear models. Topics include least squares and the normal equations, the Gauss-Markov Theorem, testing general linear hypotheses, model selection, and applications. P-MST 121 or 205 or 206, and STA 310 or MST 357. (D)

**STA 352. Networks: Models and Analysis. (3 h)**

A course in fundamental network theory concepts, including measures of network structure, community detection, clustering, and network modelling and inference. Topics also draw from recent advances in the analysis of networks and network data, as well as applications in economics, sociology, biology, computer science, and other areas. Also listed as MST 359. P-MST 117 or MST 121 or MST 205 or MST 206 and one course in STA at the 200 level or above. (D)

**STA 353. Probability Models. (3 h)**

Introduction to probability models, Markov chains, Poisson processes and Markov decision processes. Applications will emphasize problems in business and management science. Also listed as MST 353. P-MST 111, and MST 121 or MST 205 or MST 206. (D)

**STA 362. Multivariate Statistics. (3 h)**

Multivariate and linear methods for classification, visualization, discrimination, and analysis of high dimensional data. P-STA 212 and one of MST 121 or MST 205 or MST 206, or POI. (D)

**STA 363. Introduction to Statistical Learning. (3 h)**

An introduction to supervised learning. Topics may include lasso and ridge regression, splines, generalized additive models, random forests, and support vector machines. P-STA 212 and one of MST 121 or MST 205 or MST 206, or POI, experience with statistical computing. (D)

**STA 364. Computational and Nonparametric Statistics. (3 h)**

Computationally intensive statistical methods. Topics include simulation, Monte Carlo integration and Markov Chain Monte Carlo, sub-sampling, and non-parametric estimation and regression. Students will make extensive use of statistical software throughout the course. P-STA 111 or STA 212, and either STA 310 or MST 357, or POI. (D)

**STA 368. Time Series and Forecasting. (3 h)**

Methods and models for time series processes and autocorrelated data. Topics include model diagnostics, ARMA models, spectral methods, computational considerations, and forecasting error. P-STA 212, and either STA 310 or MST 357, or POI. (D)

**STA 379. Advanced Topics in Statistics. (1-3 h)**

Topics in statistics not considered in regular courses or which continue study begun in regular courses. Content varies.

**STA 381. Applied Statistics Capstone. (2 h)**

Students integrate knowledge acquired throughout their degree program. Topics include developing a research plan, statistical writing, data visualization, and data ethics. Students will communicate statistical results to both technical and non-technical audiences through written reports and oral presentations. Offered fall semester. P-senior STA major.

**STA 383. Individual Study. (1-3 h)**

A course of independent study directed by a faculty adviser. By prearrangement.

**STA 391. Senior Research Capstone I. (1 h)**

Independent study or research directed by a faculty adviser by prearrangement with the adviser.

**STA 392. Senior Research Capstone II. (1 h)**

Preparation of a paper, followed by an oral presentation based upon work completed in STA 391.

## Theatre (THE)

**THE 100. Participation. (0.5 h)**

Attendance/participation in Mainstage and Studio performances and other events as established by the department. Specific attendance/participation requirements will be established at the beginning of each semester. Assignments for technical production are made through consultation with the technical and design faculty. May be repeated for credit. P-POI.

**THE 110. Introduction to Western Theatre. (3 h)**

Survey of the theory and practice of the major disciplines of Western theatre art: acting, directing, playwriting, and design. Optional lab-THE 110L. (D)

**THE 110L. Intro to Theatre-Lab. (1 h)**

Participation in production team on Mainstage as assigned. P or C-THE 110 or 111 and POI.

**THE 111. Introduction to Theatre. (3 h)**

Survey of the theory and practice of the major disciplines of theatre art: acting, directing, playwriting and design. Includes theatre practices from non-Western traditions. Optional lab – THE 110L. (D)

**THE 125. Basic Voice and Movement for non-Majors. (3 h)**

Introduction to basic voice and movement technique. May include topics such as breathing, healthy vocalization, articulation, vocal expressiveness and energy, alignment, tension release, kinesthetic awareness, basic anatomy. Does not count toward Major.

**THE 126. Stage Makeup. (1.5 h)**

A study of the design and application of theatrical makeup in relationship to historical period and character development.

**THE 130. Voice and Movement. (3 h)**

Building awareness of the actor's instrument through the development of basic vocal and physical skills, emphasizing relaxation, clarity, expressiveness, and commitment, along with spontaneity, centering, and basic technical skills. Counts toward Major. P - THE 140.

**THE 140. Acting I. (3 h)**

Fundamental acting theory and techniques including exercises, monologues and scene work.

**THE 144. Mime. (2 h)**

An introductory study of basic mime forms. The student will gain skills and understanding of this theatrical form through practical exercises, readings, rehearsals, and performances.

**THE 150. Introduction to Design and Production. (4 h)**

Introduction to the fundamentals of theatrical design and technology including script analysis, design development, and presentation methods. Through the lab, the student develops basic skills in theater technology. Credit not allowed for both DCE 150 and THE 150. Lab-3 hours. (D)

**THE 155. Stagecraft. (3 h)**

This introductory course focuses on contemporary materials, construction methods, and rigging practices employed in the planning, fabrication and installation of stage scenery. Emphasis on using current technologies for problem solving.

**THE 181. Acting Workshop. (1 h)**

Scene work with student directors. Pass/Fail only.

**THE 188. The Contemporary English Theatre. (1 h)**

Explores the English theatre through theatre attendance in London and other English theatre centers. Readings, lectures. Participants submit reviews of the plays and complete a journal of informal reactions to the plays, the sites and the variety of cultural differences observed. Two weeks. Offered in London before spring term. Pass/fail only. P-POI.

**THE 230. Advanced Dynamics. (3 h)**

Focus on opening and strengthening the actor's instrument by building on work done in THE 130. P-THE 130.

**THE 240. Class Act. (3 h)**

Interdisciplinary theatre class that moves dramatic literature from page to stage as students prepare and present scenes used in courses throughout the University. P-THE 140 or POI. (D)

**THE 241. Acting for the Camera. (3 h)**

Introduces the theory and practice of acting for the camera. Focused on film/video/TV acting, may also include commercials and other formats. Basic knowledge of realistic acting required. P - THE 140.

**THE 242. Performance Art. (3 h)**

This combined seminar and studio course examines the history, range and context of performance art. Through discussion and exploration, students learn techniques and approaches for exploring new relationships to body, voice, space and image, and to create original performance art works.

**THE 245. Acting II. (3 h)**

Advanced study and practice of the skills introduced in Acting I. P-THE 130 and 140. (D)

**THE 246. Period and Style. (3 h)**

Studies social customs, movement, dances, and theatrical styles relating to the performance of drama in historical settings as well as in period plays. Includes performances in class. P-THE 130 or 230 and THE 140. (D)

**THE 250. Theatrical Scene Design. (3 h)**

A study of the fundamental principles and techniques of stage design. Drafting, model building, perspective rendering, historical research, and scene painting will be emphasized. P-THE 150.

**THE 251. Costume Design. (3 h)**

Studies the fundamental principles and techniques of costume and makeup design with an emphasis on historical research in the context of the text. Explores the basics of costume rendering, materials, and costume construction. P-THE 150 or POI.

**THE 252. Lighting. (3 h)**

An exploration of the lighting designer's process from script to production. A variety of staging situations will be studied, including proscenium, thrust and arena production. P-THE 150.

**THE 253. Sound and Projections for Theatre. (3 h)**

Developing and executing sound design and projections designs for theatrical production from concept to integration into performance. Covers recording, content creation, digital editing, mixing, and playback. P - THE 150 or POI.

**THE 254. Scenic Art for Theatre. (3 h)**

Hands-on introduction to the tools and techniques employed by scenic artists for contemporary stage and film. Includes an introduction to sculpting as well as a variety of projects and exercises in decorative and figurative painting. P-THE 110 or 111 and 150, or POI.

**THE 255. History of Costume. (3 h)**

Surveys the development of clothing and fashion with emphasis on historical and cultural influences and their application to costuming art. (D)

**THE 258. Stage Management. (1.5 h)**

Examines the role of the stage manager in theatre and other venues. Consideration of approaches, philosophy, nuts and bolts. Exploration of the responsibilities of the stage manager from auditions through rehearsals, techs, and performances including extended runs and touring and the key relationships therein with director, performer, designer and producer. P-THE 110 or 111 and 150.

**THE 259. Theater Management: Principles and Practices. (3 h)**

This course reviews the development of theater management in the United States, with emphasis on the role of the producer; explores commercial and not-for-profit theater with attention to planning, personnel, and the economics of theater. Includes readings, lectures, and reports. P-THE 110 or 111. (D)

**THE 265. The English Theatre, 1660-1940. (3 h)**

Studies the major developments in the English theater from the Restoration to World War II, including the plays, playwrights, actors, audiences, theater architecture, theater management, costumes and sets. Field trips include visits to theaters, museums, and performances. Also offered in London. (D)

**THE 266. Modern English and Continental Drama and the London Stage. (3 h)**

Studies the works of major playwrights of England and Europe from 1875 to the present. May also include contemporary production of classic plays. Particular emphasis will be placed on plays which are currently being presented in London theatres. Also offered in London. Also listed as ENG 347. (D)

**THE 270. Theatre in Education. (3 h)**

Practical experience for theater and education students to work together with children in the classroom using theatre to teach core curriculum. Emphasizes methods and techniques as well as the development and implementation of creative lesson plans. Weekly public school teaching experience and seminar. Also listed as Education 223.

**THE 274. World Theatre. (3 h)**

An exploration of non-U.S. Theatre, its histories, approaches, and applications. Study may include the theatre of East Asia, the Middle East, Africa, Latin America, and contemporary Europe, as well as non-English plays in translation. (CD, D)

**THE 283. Practicum. (1-1.5 h)**

Projects under faculty supervision. May be repeated for no more than three hours. P-Permission of the department.

**THE 285. Internship in Theatre. (1-3 h)**

Internship, approved by the department, to be carried out under the supervision of a departmental faculty member, designed to meet the proposing student's needs and interests related to their study of theatre. Requirements may include an evaluative paper and public presentation. Normally one course in an appropriate sub-filed is taken prior to the internship. P-POI.

**THE 290. Special Seminar. (1.5-3 h)**

The intensive study of selected topics in theater. May be repeated.

**THE 294. Individual Study. (1-3 h)**

Research and readings in an area of interest to be approved and supervised by a faculty adviser. May be taken for no more than three times for a total of not more than nine hours. P-POI.

**THE 295. Development and Performance. (1-4 h)**

An intensive experiential course designed to research and develop a theater piece resulting in performance. Focus will vary. May be repeated once for credit.

**THE 310. History of Western Theatre I. (3 h)**

Surveys of the development of Western theatre and drama through the Greek, Roman, medieval, and Renaissance theatres. Suitable for non-majors. (D)

**THE 311. History Western Theatre II. (3 h)**

Survey of Western theatre and drama including English Restoration, the eighteenth century, Romanticism, Realism, the revolts against Realism and the post-modern theatre. Suitable for non-majors. (D)

**THE 320. British Drama to 1642. (3 h)**

British drama from its beginning to 1642, exclusive of Shakespeare. Representative cycle plays, moralities, Elizabethan and Jacobean tragedies, comedies, and tragicomedies. Also listed as ENG 320.

**THE 323. Shakespeare. (3 h)**

Thirteen representative plays illustrating Shakespeare's development as a poet and dramatist. Also listed as ENG 323.

**THE 336. Restoration and Eighteenth-Century British Drama. (3 h)**

British drama from 1660 to 1780, including representative plays by Dryden, Etherege, Wycherley, Congreve, Goldsmith, and Sheridan. Also listed as ENG 336.

**THE 341. Directing I. (3 h)**

An introduction to the theory and practice of play directing. P-THE 140. C or P-THE 150.

**THE 342. Directing II. (3 h)**

Advanced study of the theory and practice of play directing. P-THE 140, 150, and 341. C or P-THE 250 or 251 or 252 or POI.

**THE 343. Studio Production. (1.5, 3 h)**

The organization, techniques and problems encountered in the production of a play for the public. May be repeated once. P - THE 150 and POI.

**THE 344. Acting Shakespeare. (3 h)**

A practical study of varying styles in interpreting and acting Shakespeare's plays from the time of the Elizabethans to the present day. P-THE 130 and 140. (D)

**THE 360. Playwriting. (3 h)**

This course will examine the elements of dramatic structure and their representations in a variety of dramatic writings. It will explore the fundamentals of playwriting through a series of writing exercises. Also listed as CRW 384.

**THE 372. Contemporary Drama. (3 h)**

The course will consider varieties of form and substance in plays and performance texts from Godot to the present. Readings will cover such playwrights as Beckett, Pinter, Stoppard, Churchill, Wertebaker, Albee, Shepard, Fornes, Mamet, Wilson, Soyinka, Fugard, and Foreman. Also listed as ENG 394.

**THE 373. Women Playwrights. (3 h)**

Examination of selected plays and/or performance texts by women. Focus varies, for example, looking at works by contemporary American women or early women dramatists such as Hrosvitha, Sor Juana, and Aphra Behn. Also listed as WGS 319. (CD)

**THE 374. Contemporary World Drama. (3 h)**

This course will consider varieties of form and substance in plays and performance texts from outside the mainstream of the Western theatrical tradition. Focus will vary, for example Asian and Asian-American playwrights or drama of the Middle East. (CD)

**THE 375. American Drama. (3 h)**

A historical overview of drama in the United States, covering such playwrights as Boucicault, Mowatt, O'Neill, Glaspell, Wilder, Williams, Miller, Hansberry, Albee, Shepard, Norman, Hwang, Vogel, Mamet, and Wilson. Also listed as ENG 375.

**THE 376. Multicultural American Drama. (3 h)**

Examines the dramatic works of playwrights from various racial and ethnic communities such as Asian American, Native American, African American, and Latino. The course will include consideration of issues, themes, style, and form. Also listed as ENG 393. (CD)

**THE 390. Special Seminar. (1-3 h)**

The intensive study of selected topics in the theater. May be repeated.

**THE 391. Special Seminar. (1-3 h)**

The intensive study of selected topics in the theater. May be repeated.

**THE 392. Special Topics in Dramatic Literature. (1-3 h)**

Intensive study of selected plays and/or performance texts.

**THE 393. Sp Top Dramatic Lit Cult Diver. (3 h)**

Intensive study of selected plays and/or performance texts, focusing on cultural differences - for instance, women playwrights, GLBT playwrights, or class-focused works. (CD)

**THE 395. Senior Seminar. (1 h)**

Preparation for further, post-graduation work and study in theatre. Highly recommended for theatre majors and minors.

**THE 399. Theatre Honors. (3 h)**

Tutorial involving intensive work in the area of special interest for qualified seniors who wish to graduate with departmental honors. P-POD.

## Washington DC Internship (WDC)

**WDC 100. Internship. (3, 6 h)**

A one semester internship in government, a non-governmental organization, non-profit organization, or business, matching the individual student's interests. Part of the Wake Washington semester program.

## Women's and Gender Studies (WGS)

**WGS 101. Window on Women's, Gender and Sexual Studies. (1.5 h)**

An opportunity to experience and reflect analytically in writing on the diverse cultural and intellectual life of Wake Forest, with an emphasis on women's, and gender, and sexuality studies events and topics.

**WGS 121. Feminist Leadership Project. (1.5 h)**

Explores the principles of feminist leadership to deepen self-awareness about personal leadership skills and gain tools for creating feminist social change. This highly interactive class welcomes students who are new to feminist thought/activism as well as those seeking to deepen their engagement with feminism. Pass/fail only.

**WGS 122. LGBTQ Center Change Agents Leadership Project. (1.5 h)**

Open to participants in the LGBTQ Center's Change Agent program. Participants will explore principles of identity development (individual and community), queer and feminist theories of leadership and change, understanding gender and sexuality as frameworks for community organizing and social change, and development and implementation of a final change related project. Pass/fail only. P-POI.

**WGS 123. The Feminist Book Society. (1.5 h)**

A reading course designed to introduce students to classic and contemporary feminist texts. Emphasis on close reading, discussion, and writing. May be repeated for credit if texts differ.

**WGS 125. Prepare. (1.5 h)**

Provides students with an overview of the social, emotional, and legal issues related to sexual violence, and teaches them to design and implement educational programs on this topic. Pass/fail only.

**WGS 150. Perspectives in Gender and Sexuality. (3 h)**

Introduces feminism as a lens of analysis; gender, sexuality, and other social categories as social constructs; sexism, heterosexism, and other social systems as systems of oppression; and intersectionality as a lens of analysis. Topics of the course will vary based on the instructor. (D)

**WGS 214. Gender and Sexuality in World History. (3 h)**

Introduces the global and historical breadth of gender and sexual systems. Foundational and current approaches to cross-cultural historical analysis of masculinity, women's rights, and differences between LGBTQ identities and other models. Also listed as HST 114.

**WGS 221. Introduction to Women's, Gender, and Sexuality Studies. (3 h)**

Introduces many of the key topics, debates, and theoretical paradigms in the field of Women's, Gender, and Sexuality Studies. Addresses questions such as: What are gender and sexuality and how do gender and sexual norms influence the lives of people in society? What is the relationship between gender and sexuality and other social categories such as race and class? What is power and how is power distributed differently according to gender, race, class, and sexuality? The course strives to train students in analytical thinking and presses them to think critically about gender and sexuality in the past, present, and future. (CD)

**WGS 222. Introduction to Sexuality Studies. (3 h)**

Provides an interdisciplinary grounding in the foundations of queer culture and studies, with a critical interrogation of sex, gender, sexuality, pleasure, and embodiment in popular culture, literature, health, science, and politics. (CD)

**WGS 224. Readings in Queer Theology. (1.5 h)**

This seminar-style reading course surveys classic and new works in queer theology. Queer theology transgresses dominant constructions of gender identity and sexuality; and as such, it can be seen as an expression of the Christian gospel that subverts human understandings of life, community, and the divine. The course explores biblical and Christian theological perspectives on sexuality, social constructions of sexuality, and issues such as power, marriage equality, and sexual ethics.

**WGS 230. Studies in Gender and Literature. (3 h)**

Addresses ways in which gender and literacy practices intersect in various cultures and historical periods. Attention will be paid to the role of literature in formulating, subverting, or resisting gender norms. May be repeated for credit if topic differs.

**WGS 234. Sexual Revolution! Gender and Sexuality in the United States, 1950-1980. (3 h)**

Examines how conflicts around gender and sexuality played out from the 1950s to the 1970s in both the popular and high culture of the time: in bestselling novels and poems as well as canonical literature, and in television as well as in experimental film. We will consider the 1950s twice: once through the art produced at that time, and then through art produced about the 1950s after mainstream gender norms had shifted.

**WGS 251. Race and Ethnic Diversity in America. (3 h)**

Different race and ethnic experiences are examined through an institutional approach that examines religion, work, schooling, marriage patterns, and culture from cross-cultural perspective. Grand theoretical schemes like the "melting pot" are critiqued for their relevance in an age of new cultural expectations among the many American ethnic groups. Also listed as AES 251. (CD)

**WGS 271. Making Sense of the News Through a Feminist Lens. (1-3 h)**

Inquiry into news literacy from a feminist perspective, with the intention to identify gender bias and consider questions of empowerment, exclusion, consumerism, and how to navigate the digital landscape to distinguish verified, reliable news from propaganda.

**WGS 301. Feminist Political Thought. (3 h)**

Introduction to feminist thought and its implications for the study and practice of political theory. Topics include feminist critiques of the Western political tradition and schools of feminist political theory. Also listed as POL 277. (CD)

**WGS 302. Feminist Philosophy. (3 h)**

Examination of feminist approaches to philosophical theorizing. Topics may include feminist critiques of the scope and methods of mainstream philosophy, feminist approaches to ethics, epistemology and philosophy of language, and feminist conceptions of the self, sexuality, and moral agency. Also listed as PHI 379. P-One PHI course or POI.

**WGS 305. Transgender History, Identity and Politics. (3 h)**

Explores the experiences of and responses to transgender, gender non-conforming, and intersex (TGI) people in nineteenth-and twentieth-century America. We will examine how scientific/medical authorities, legal authorities, and everyday people have understood and responded to various kinds of gender non-conformity. Same as HST 371. (CD)

**WGS 306. Queer Public Histories. (3 h)**

Explores how public history projects (oral histories, museums, archives, documentaries) document gay, lesbian, and queer communities in the U.S. Discusses how historical and contemporary LGBTQ stories have been collected and examines the various queer identities that emerge through this process. Same as HST 372.

**WGS 309. Environmentalism, the Humanities, and Gender. (3 h)**

Survey of the global spread of Environmentalism, with an emphasis on its evolution as a disciplinary field that includes eco-feminism and feminist perspectives on the environment. Topics include the investigation of women's roles in environmental history and the construction of global environmental narratives. Also listed as HMN 292.

**WGS 310. Gender, Power and Violence. (3 h)**

A research-centered study of various issues related to violence, power, and gender in American society. Emphasizes sociological analysis of competing theoretical explanations of violence with respect to race, class, gender, religion, and sexual orientation. (CD)

**WGS 318. Film Lab in Women's, Gender, and Sexuality Studies. (1.5 h)**

Viewing, dissecting, and analyzing films. Fosters the skills to create complex cinematic analyses and explore feminist theoretical issues related to spectatorship.

**WGS 319. Women Playwrights. (3 h)**

Examination of selected plays and/or performance texts by women. Focus varies, for example, looking at works by contemporary American women or early women dramatists such as Hrosvitha, Sor Juana, and Aphra Behn. Also listed as THE 373. (CD)

**WGS 322. Feminist, Womanist, Murjerista Theologies: Constructive Perspectives on Christian Thought. (3 h)**

Examines major topics in Christian theology from African American (womanist), Latina/Hispanic (mujerista), and queer perspectives.

**WGS 326. Telling Women's Lives: Writing about Entrepreneurs, Activists, and Thought Leaders. (3 h)**

This course will use an interdisciplinary approach to address fundamental issues of female leadership by examining recent developments in long- and short-form narratives about women (biography, essays, profiles) and employing journalistic tools to interview and write profiles of women entrepreneurs, activists, and thought leaders. Also listed as ENT 326.

**WGS 329. Politics of Gender and Sexuality: Cross-Cultural Perspectives. (3 h)**

Examines cultural constructions of gender and sexuality from a cross-cultural perspective and the relationship between feminism and cultural rights activism through time. Emphasizes how varied forms of feminisms are constituted within diverse social, cultural, and economic systems. Students consider how feminists are negotiating positions at the intersection of cultural and human rights. Also listed as ANT 329.

**WGS 330. Gender and the Politics of Health. (3 h)**

Examines the intersections of gender, medicine, health, and illness, with a focus on the U.S. context. Topics include: reproduction, mental illness, breast cancer, heart disease, and HIV/AIDS, among others. We explore the following questions: How have women and men interacted differently with the field of medicine, as healers, patients, and subjects of medical research? How do social and cultural norms about gender influence the definition of illness categories? What role does medicine play in defining and enforcing the boundaries of what is considered socially acceptable in terms of gender? How does gender as a social role affect health outcomes?.

**WGS 332. Men, Masculinity and Power. (3 h)**

Offers an introduction to the burgeoning interdisciplinary field of masculinity studies. Students will explore the social, historical, and cultural construction of masculinity and male roles (as fathers, sexual and romantic partners, and workers) and how these constructions differ according to race, class, sexuality, etc. In addition, the course will examine how norms about masculinity simultaneously empower men as a group and many individual men, while also disadvantaging many individual men and regulating the behavior of all men. Students will explore possibilities for challenging hegemonic forms of masculinity and for creating new types of masculinity.

**WGS 333. Sexual Politics in the United States. (3 h)**

Explores the politics of sexuality in the United States. Drawing on feminist scholarship, queer theory, and lesbian, gay, and transgender studies, we will explore different historical and theoretical approaches to thinking about issues of power and sexuality. We will discuss sexual identities and cultures, state regulation of sexuality, sexual commerce, and cultural representations of sexuality, among other topics. Throughout we will examine how other social categories such as race, class, gender, and disability intersect with the politics of sexuality.

**WGS 345. Girls Gone Wild: A Century of Misbehavior. (3 h)**

Analyzes what made girls and women "bad" and "wild" in the twentieth-century United States, and how such judgments changed over time. Engages closely with novels, short stories, movies, comics, podcasts, and an opera with an eye to what behaviors were considered appropriate, and how they interrelated with sexual attraction, with economics, and with love. We examine the relationship between being configured as a sexual object (a recipient of desire) and a sexual subject (a possessor of desire), and come to a critical understanding of how the "proper" and "improper" forms of both were constantly in flux. We ask how race, ethnicity, and queerness interacted with hegemonic concepts of beauty and desire, and whether "masculinity" and "femininity" are necessarily attached to men and women. We read theories of sex and gender, examine concepts of projection and male hegemony, and ask how men as well as women are shaped by rules of appropriate behavior.

**WGS 346. Visual Narratives: Image, Sequence, Story. (3 h)**

Investigates the relationship of image, sequence, and story in typography, comics, woodcut novels, and photographic books, and film, as well as fiction and poetry with unusual visual elements, and then asks how these various elements offer different visual and textual expressions of sexuality. Students will conduct formalist analyses and further investigate visual narrative through creative exercises with the goal of developing an aesthetic sensibility and a technical vocabulary that enable them to discuss visual narrative with precision. Please note that some visual narratives will include graphic scenes of sexuality. Same as ENG 345.

**WGS 347. Joan Didion/Edmund White: Personal/History. (3 h)**

Examines Didion and White, two of the most important American writers of the past fifty years. Both are known for their journalism as well as their fiction, and their interest in U.S. cultural and political history, especially in terms of gender and sexuality, permeates their novels. This course analyzes three works by each author, developing themes from motherhood, sexuality, imperialism, rebellion and AIDS.

**WGS 349. Invert, Pervert, Bull Dagger, Queen: U.S. Queer Fiction in the 20th Century. (3 h)**

Explores the history of lesbians, gay men, bisexuals, the transgendered, and other queers through fiction by and about them written over the last century in the United States. We also consider biography, artifacts of popular culture, comics, drama, and film. Topics include the relationship between homosexual desire and queerness in a broad sense; LGBTQ children; biological and psychological understandings of sexual orientation; and how social construction informs sexual identity and desire.

**WGS 358. Mothers and Daughters. (3 h)**

A course that examines literature, psychology, and feminist theories on motherhood and the mother-daughter relationship.

**WGS 362. Feminism and Theatre. (3 h)**

Introduces students to the intersection of theater and feminism and experience its interdisciplinary lineage and academic interventions. Students will learn and apply feminist theory, which looks beyond the conventional theater for a continuum of performance that includes play, ritual, sport, everyday life and social roles, as well as performance art, global and intercultural performance. Engaging with various feminist theoretical approaches from radical and liberal feminism to intersectional and transnational feminism, students will be encouraged to critically examine race, class, gender, sexuality, ethnicity, and nationality expressed on and offstage.

**WGS 363. Gender and Sexuality in Contemporary Korea. (3 h)**

Examines gender and sexuality in Korean TV, film, K-pop, protests, and everyday performances, focusing on diverse socio-political issues within and beyond the Korean Peninsula. Topics include: the evolution of feminism, #metoo movement, LGBTQ cultures, sex work, aging, plastic surgery industry, postcolonial and post-Korean war conflicts, and transpacific affinities. (CD)

**WGS 364. Women of Color, Feminisms, and the Politics of Resistance in the U.S. (3 h)**

Examines historical and contemporary issues and current events affecting the lives of African American, Asian American, Latina, and Native American women. Exploring major theoretical and practical viewpoints in women's studies scholarship, the course will reveal the importance of intersectionality between race, gender, sexuality, class, and/or ethnicity in the everyday lives of multicultural women. Through arts-based civic engagement projects and activities, this course will also encourage students to formulate their own language of resistance against multiple forms of oppression. (CD)

**WGS 365. Transnational Asia and Asian American Feminism. (3 h)**

Analyzes historical, socio-political, and cultural events as well as contemporary issues structuring the lives of Asian American women and queer community. Students will learn intersectional and transnational feminist approaches to examine race, class, gender, sexuality, ethnicity, nationality, and kinship in Asian American art and activism.

**WGS 377. Special Topics. (1.5-3 h)**

Includes such women's, gender and sexuality studies topics as gender issues in the twenty-first century, critical approaches to women's issues, and the emergence of feminist thought. May be repeated for credit if topic differs.

**WGS 380. Sexuality, Law, and Power. (3 h)**

Explores a wide variety of issues related to sexual identity and orientation by looking at the ways in which the law can constrict social development as well as act as a catalyst for change. Examines how religion and popular morality shape the law and are shaped by it.

**WGS 381. Gender and the Law. (3 h)**

Examines how the law affects women's lives in a number of contexts. Considers a number of different areas, including but not limited to employment, education, family responsibilities, violence against women, and other issues affecting women's bodies, including pornography and prostitution. The class will also review a number of feminist legal theories and issues relating to the intersection of gender with race and class.

**WGS 383. Race, Gender, and the Courts. (3 h)**

Examines the impact of state and federal court cases upon the evolution of race and gender relations in the U.S. from 1789 to the present. Each case is placed within the political, economic and social historical context for the given time periods. Race includes Native Americans, African Americans, Asian Americans, and Latino Americans. This class will analyze government intervention, inaction, and creative interpretation. Same as HST 358.

**WGS 388. South Asian Women: Religion, Culture and Politics. (3 h)**

Using a feminist and post-colonial perspective, and taking into account the histories, experiences, and lives of South Asian women, this course, examines the intersection of religion, race, and gender from both a theoretical and a practical point of view. It focuses on issues of representation and identity formation, recognizing how categories such as "South Asian" and "woman" become tools for a simultaneous understanding of both culture and gender, creating a place for both oppression and empowerment. Same as REL 388.

**WGS 396. Independent Study. (1-3 h)**

Independent projects in women's, gender, and sexuality studies which either continue study begun in regular courses or develop new areas of interest. Course may be repeated, but a maximum of 3 hours may apply to the minor. By prearrangement.

**WGS 397. Public Engagement in Women's, Gender, and Sexuality Studies. (1.5, 3 h)**

An opportunity for students to engage in work and research that is shared with the broader public, either on campus or in a local community. A maximum of 3 hours may apply to the major or minor. P-POI.

**WGS 398. Theory and Practice of Women's, Gender, and Sexuality Studies. (3 h)**

Examines the major themes and terminology in Women, Gender, and Sexuality Studies, with focus on its diverse and multicultural expressions through time. Themes to be explored include schools of feminism, interlocking systems of oppression and the connection between theory and practice.

**WGS 399. Research Seminar in Women's, Gender, and Sexuality Studies. (3 h)**

A capstone, research-centered course in which students complete a significant research or creative project of their choosing situated within the field of Women's, Gender, and Sexuality Studies.

## Writing Courses (WRI)

**WRI 105. Introduction to Critical Reading and Writing. (3 h)**

Training in critical reading and expository writing. Frequent essays based on readings in a selected topic. Designed for students who want additional practice in making transition to college writing. Elective credit; does not satisfy the basic composition requirement.

**WRI 107. Foundations in Academic Research and Writing. (3 h)**

An introduction to college-level writing through sequenced writing assignments that will guide students through the writing processes, from summary to analysis. Emphasis on critical reading, argumentative writing, and research. Summer only; elective credit; does not satisfy the basic writing requirement.

**WRI 108. Introduction to Academic Writing. (3 h)**

An introduction to academic writing for English language learners. Designed for international students whose first language is not English as they make the transition to U.S. university writing. Emphasis is placed on cultural assumptions that underlie U.S. college writing, as well as, grammar, academic phrasing, and organizational strategies.



**WRI 111. Writing Seminar. (4 h)**

A seminar that introduces students to the study and practice of college writing; discussion-based; theme-driven; writing-intensive; required conferencing.

**WRI 210. Advanced Academic Writing. (3 h)**

An advanced composition course focused on the study of academic writing. Students consider the rhetorical and linguistic features of research-based writing, examine methods of research and evidence-gathering, and analyze argumentation across fields. Enrollment limited. P - WRI 111 or exemption from WRI 111.

**WRI 212. Literary Nonfiction: Art of the Essay. (3 h)**

Reading, writing, and analysis of the essay. Consideration of the rise and evolution of various forms of the essay; inclusive of essayists from a variety of disciplines. Enrollment limited. P - WRI 111 or exemption from WRI 111.

**WRI 306. Special Topics in Rhetoric and Writing. (1.5, 3 h)**

Study of significant rhetorical or writing theories and practices focused on one area of study. May be repeated once for credit.

**WRI 307. Contemporary Theory of Rhetoric and Writing. (1.5, 3 h)**

Study of key historical developments and theories in the current field of rhetoric and writing studies since its 20th-century inception.

**WRI 310. Interaction in Language: Introduction to Written Discourse Studies. (3 h)**

Analysis of theoretical traditions in discourse studies, including Pragmatics, Analysis of Institutional Talk, Genre Analysis, and Corpus Linguistics, designed to provide students with new approaches and tools with which to question, investigate, and critique how language works in discourses that are meaningful to them.

**WRI 320. Writing in and about Science: Scientists as Writers and Writers as Scientists. (3 h)**

Reading, writing, and analysis of scholarly and popular science writing. Consideration of scientists as writers and rhetoricians, namely, the varied purposes and audiences for which scientists and science writers compose. Enrollment limited. P - WRI 111 or exemption from WRI 111.

**WRI 340. Practice in Rhetoric and Writing. (3 h)**

Training and practice in the reading and writing of expository prose. Students study the uses of rhetoric to frame arguments and marshal evidence, then learn to practice these skills in their own writing of expository prose.

**WRI 341. Writing Center Pedagogy. (3 h)**

Introduction to composition pedagogy and writing center theory and practices, with special emphases on one-to-one and small group peer tutoring techniques. The course includes classroom-based work - reading, writing, responding, discussing, and exploring instruction and consultation processes - and field experiences. Students spend a total of 20 hours observing in writing classrooms, the WFU Writing Center and/or community sites, and tutoring. Students reflect on these experiences to prepare a final researched writing project. Strongly recommended for those interested in working in the Writing Center as peer tutors.

**WRI 342. Writing Practicum. (1-3 h)**

Practical or professional experience in writing, rhetoric, and composition. Students must be supervised and mentored by a faculty adviser. Cannot be repeated.

**WRI 343. Independent Study. (1-3 h)**

Independent study with faculty guidance. By prearrangement.

**WRI 344. Magazine Writing. (3 h)**

Analysis of magazine writing and long form journalism with practice pitching, reporting and writing articles in a range of styles and of varied lengths with specific audiences in mind. Also listed as JOU 340. P - JOU 270 or POI.

**WRI 350. Writing Minor Capstone. (3 h)**

Seminar course focused on reading and portfolio requirements. For students wishing to graduate with the Interdisciplinary Minor in Writing.

# PROGRAMS A-Z

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## A

- Accountancy, B.S.
- African Studies, Minor
- American Ethnic Studies, Minor
- Anthropology, B.A.
- Anthropology, Minor
- Applied Mathematics, B.S.
- Arabic, Minor
- Art History, B.A.
- Art History, Minor

## B

- Biochemistry and Molecular Biology, B.S.
- Bioethics, Humanities and Medicine, Minor
- Biology, B.A.
- Biology, B.S.
- Biology, Minor
- Biophysics, B.S.
- Business and Enterprise Management, B.S.

## C

- Chemistry with Concentration in Biochemistry, B.S.
- Chemistry with Concentration in Materials Chemistry, B.S.
- Chemistry with Concentration in Medicinal Chemistry and Drug Discovery, B.S.
- Chemistry, B.A.
- Chemistry, B.S.
- Chemistry, Minor
- Chinese Language and Culture, B.A.
- Chinese Language and Culture, Minor
- Classical Languages, B.A.
- Classical Studies, BA
- Classical Studies, Minor
- Communication, B.A.
- Communication, Minor
- Computer Science, B.A.
- Computer Science, B.S.
- Computer Science, Minor
- Creative Writing, Minor
- Cultural Heritage & Preservation Studies, Minor

## D

- Dance, Minor

## E

- East Asian Studies, Minor
- Economics, B.A.
- Economics, Minor
- Elementary Education, B.A.
- Engineering, B.S.

- Engineering, Minor
- English, B.A.
- English, Minor
- Entrepreneurship, Minor
- Environment and Sustainability Studies, BA
- Environmental Science, BA
- Environmental Science, Minor
- Environmental Studies, Minor

## F

- Film and Media Studies, Minor
- Finance, B.S.
- French for Business, Concentration
- French Studies, B.A.
- French Studies, Minor

## G

- German Studies, B.A.
- German Studies, Minor
- German, B.A.
- German, Minor
- Global Trade and Commerce Studies, Minor
- Greek, B.A.
- Greek, Minor

## H

- Health and Exercise Science, B.S.
- Health and Human Services, Minor
- Health Policy and Administration, Minor
- History, B.A.
- History, Minor

## I

- Interdisciplinary Humanities, Minor
- Interdisciplinary Studies, B.A.
- Interdisciplinary Studies, B.S.
- International Studies, Minor
- Italian Language and Culture, Minor
- Italian Studies

## J

- Japanese Language and Culture, B.A.
- Japanese Language and Culture, Minor
- Jewish Studies, Minor
- Journalism, Minor

## L

- Latin, B.A.
- Latin, Minor
- Latin-American and Latino Studies, Minor
- Linguistics, Minor

**M**

- Mathematical Business, B.S.
- Mathematical Economics, B.S. (<https://bulletin.wfu.edu/courses-instruction/economics/bs-mathematical-economics/>)
- Mathematical Economics, B.S.
- Mathematical Statistics, B.A.
- Mathematical Statistics, B.S.
- Mathematics, B.A.
- Mathematics, B.S.
- Mathematics, Minor
- Medieval and Early Modern Studies, Minor
- Middle East and South Asia Studies, Minor
- Military Science (MIL)
- Music in Liberal Arts, B.A.
- Music Performance, B.A.
- Music, Minor

**N**

- Neuroscience, Minor

**P**

- Philosophy, B.A.
- Philosophy, Minor
- Physics, B.A.
- Physics, B.S.
- Physics, Minor
- Politics and International Affairs, B.A.
- Politics and International Affairs, Minor
- Psychology, B.A.
- Psychology, Minor

**R**

- Religious Studies, B.A.
- Religious Studies, Minor
- Russian and East European Studies, Minor
- Russian, B.A.
- Russian, Minor

**S**

- Schools, Education, and Society, Minor
- Secondary Education, Minor
- Sociology, B.A.
- Sociology, Minor
- Spanish for Business, Concentration
- Spanish for Health Professions, Concentration
- Spanish Interpreting, Concentration
- Spanish Studies
- Spanish Translation/Localization, Concentration
- Spanish, B.A.
- Spanish, Minor
- Statistics, Minor

- Studio Art, B.A.
- Studio Art, Minor

**T**

- Theatre, B.A.
- Theatre, Minor

**W**

- Women's, Gender, and Sexuality Studies, B.A.
- Women's, Gender, and Sexuality Studies, Minor
- Writing, Minor

# ARCHIVE

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[Undergraduate Bulletin 2018-20](https://bulletin.wfu.edu/archive/2018-2019/) (<https://bulletin.wfu.edu/archive/2018-2019/>)[19](https://bulletin.wfu.edu/archive/2018-2019/) (<https://bulletin.wfu.edu/archive/2018-2019/>) (pdf (<https://bulletin.wfu.edu/archive/2018-2019/pdf/2018-2019.pdf>))

[Undergraduate Bulletin 2017-2018](http://prod.wp.cdn.aws.wfu.edu/sites/251/2016/10/ugb2017-2018.pdf) (<http://prod.wp.cdn.aws.wfu.edu/sites/251/2016/10/ugb2017-2018.pdf>)

[Undergraduate Bulletin 2016-2017](http://static.wfu.edu/files/pdf/academics/ugb2016-2017.pdf) (<http://static.wfu.edu/files/pdf/academics/ugb2016-2017.pdf>)

[Undergraduate Bulletin 2015-2016](http://static.wfu.edu/files/pdf/academics/ugb2015-2016.pdf) (<http://static.wfu.edu/files/pdf/academics/ugb2015-2016.pdf>)

[Undergraduate Bulletin 2014-2015](http://static.wfu.edu/files/pdf/academics/ugb2014-2015.pdf) (<http://static.wfu.edu/files/pdf/academics/ugb2014-2015.pdf>)

[Undergraduate Bulletin 2013-2014](http://static.wfu.edu/files/pdf/academics/ugb2013-2014.pdf) (<http://static.wfu.edu/files/pdf/academics/ugb2013-2014.pdf>)

[Undergraduate Bulletin 2012-2013](http://static.wfu.edu/files/pdf/academics/ugb2012-2013.pdf) (<http://static.wfu.edu/files/pdf/academics/ugb2012-2013.pdf>)

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[Undergraduate Bulletin 2010-2011](http://static.wfu.edu/files/pdf/academics/ugb2010-2011.pdf) (<http://static.wfu.edu/files/pdf/academics/ugb2010-2011.pdf>)

[Undergraduate Bulletin 2009-2010](http://static.wfu.edu/files/pdf/academics/ugb2009-2010.pdf) (<http://static.wfu.edu/files/pdf/academics/ugb2009-2010.pdf>)

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