LIST OF COURSES AND DESCRIPTIONS

CART 101	Art Foundations I	3 Credits		
Studio problems in basic design explore the elements and principles of applied design theory.				
CART 102	Art Foundations II	3 Credits		
Studio problems that cover the propertie	Studio problems that cover the properties and effects of light and color. Exploration of basic color organizations and principles.			
CART 150	Art Appreciation	3 Credits		
	ding and appreciation of the art forms in the world. Lectures, discuarchitecture and other forms of art from different cultures.	ussions and visual aids are		
CART 201	Drawing I	3 Credits		
Introduction to perceptual drawing skills	s. Focus is on the translation of three-dimensional forms to a two-dime	ensional surface.		
CART 202	Drawing II	3 Credits		
Continuation of CART 201. Emphasizes CART 201.	perceptual drawing skills. Students are also introduced to a variety	of materials. <i>Prerequisite</i> :		
CART 217	Printmaking I	3 Credits		
Introduction to hand printmaking. Stress Prerequisites: CART 101 and CART 102	es creativity, experimentation, and development of skill and craftsman:	ship in printing procedures.		
CART 240	Art History Survey I	3 Credits		
This course provides a comprehensive in artistic developments in ancient Africa, A	troduction to the history of Western Art before the Renaissance and ar sia and the Americas	n overview of cross-cultural		
CART 241	Art History Survey II	3 Credits		
This course provides a comprehensive introduction to the history of Western Art since the Renaissance, and an overview of cross-cultural artistic developments in Africa and Asia since 1200.				
CART 275	Photography I	3 Credits		
	n little prior knowledge of photography. Students are introduced to th t of the course is a camera with a manually adjustable shutter speed c			
CART 277	Computer Imaging Basics	3 Credits		
An introduction to Adobe Illustrator and required.	Adobe Photoshop that explores techniques for basic digital design. A	cademic advisor's approval		
CART 301	Art Direction/Design I	3 Credits		
	ncluding a study of typefaces and letter spacing, composition, and thei equisites: CART 101, CART 102, and CART 277 or permission of instru			
CART 302	Art Direction/Design II	3 Credits		
	tion, including generation of visual symbols, graphic simplification, ner development of technical skills. <i>Prerequisite</i> : CART 301 or permi:			
CART 303	Advanced Drawing	3 Credits		
Investigation of advanced drawing techn CART 202 or permission of instructor.	iques with an emphasis on figure drawing. <i>Prerequisites</i> : CART 101	, CART 102, CART 201, and		
CART 315	Illustration I	3 Credits		
Basic illustration conceptualization. Develops students' professional illustration techniques and processes. <i>Prerequisites</i> : CART 201 and CART 202 or permission of instructor.				
CART 317	Printmaking II	3 Credits		
Continuation of CART 217. Students introduced to intermediate printmaking concepts. <i>Prerequisites</i> : CART 101, CART 102, and CART 217.				
CART 375	Photography II	3 Credits		
Continuation of CART 275. Students are required to form a personal vision through directed assignments. <i>Prerequisite</i> : CART 275 or permission of instructor.				
CART 379	Advanced Computer Imaging	3 Credits		
Covers advanced computer graphics imaging utilizing graphics software for visual communication. <i>Prerequisites</i> : CART 101, CART 102, CART 201, or permission of instructor. Academic advisor's approval is required.				
CART 401	Art Direction/Design III	3 Credits		
Ideas of sequence and series, organization design principles are also explored. <i>Prer</i>	n, and typographic hierarchy are addressed through poster, brochure equisites: CART 301 and CART 302, or permission of instructor.	e, and book design. Package		

CART 402 Art Direction/Design IV 3 Credits The study of advanced digital imaging techniques. Content includes the development of advertising campaigns utilizing creative briefs. Synthesizes concepts learned in typography and image communication through the development of visual programs for sequential viewing. *Prerequisites*: CART 301 CART 302, and CART 401, or permission of instructor. African Fabric Design 3 Credits Focuses on analysis of African fabric designs in terms of their patterns and social functions. Emphasis is on the appropriate use of African fabric design for fashion and commercial art design. **Seminar in Contemporary Art** Investigates topics pertinent to the studio artist. Focus is on the impact of recent art history on the work of contemporary artists. Illustration Advanced coursework in illustration based on a student research topic. The student works directly with faculty to guide and develop the project. Prerequisite: CART 315. **Photography** Advanced coursework in photography based on a student research topic. The student works directly with faculty to guide and develop the project. Prerequisites: CART 275 and CART 375. **CART 457** 3 Credits **Printmaking** Advanced coursework in printmaking based on a student research topic. The student works directly with faculty to guide and develop the project. Prerequisites: CART 217 and CART 317. Printmaking (Lithography) **CART 460** 3 Credits Advanced coursework in lithographic printing based on a student research topic. The student works directly with faculty to guide and develop the project. *Prerequisites*: CART 217 and CART 317. **Graphic Design** 3 Credits Advanced coursework in visual communication based on a student research topic. The student works directly with faculty to guide and develop the project. Prerequisites: CART 301 and CART 302. **CART 479 Computer Graphics** 3 Credits Advanced coursework in digital imaging based on a student research topic. The student works directly with faculty to guide and develop the project. **Prerequisite**: CART 379. **CART 488** Internship 3 Credits On-the-job training for the work world. Students can qualify for an internship after the freshman year. Prerequisite: Permission of department chair. **CART 490 Independent Study** 0-3 Credits In consultation with a department faculty member, upper-division students prepare a proposal to explore a defined project in visual art or art criticism. The proposal must outline the topic, scope of work planned, and the hourly credit to be assigned **CART 492 Senior Seminar** 3 Credits Capstone course for General Studio and Advertising Design art majors. Includes preparation for portfolio presentation, job searches, interview techniques, oral presentations and organizing exhibitions. Prerequisite: Permission of department chair. **CART 499 Special Topics in Visual Arts** 3 Credits Upper-division students explore topical issues in studio practice or art criticism. CART XXX **Directed Study** 3 Credits Research and advanced production techniques in a field of the student's special interest. Directed studies taken after completion of the course sequence available in the field of interest. Approval of the instructor required. **SART 141**** 3 Credits History of Art I This course will explore the art and architecture of Egypt, the Near East, the classical Greek and Roman world and Medieval Europe from about 2000BC to 1400AD. It will examine a wide range of art, architecture and objects, designed for various functions, from the standpoints of style, content and how they express political and religious ideas of the societies that created them. Open to non-art majors as an elective or fine arts credit. **SART 142**** History of Art II 3 Credits This course will explore major artistic traditions from the Renaissance to the Modern era in Western Europe and America. Focusing primarily on painting, sculpture and selected examples of architecture, it will examine art style and content with reference to historical background, patronage, nationality, personality, gender influence and artistic production. Open to non-art majors as an elective or fine arts credit. **CBIO 101 Biological Science** 3 Credits This course is offered for non-science majors. Topics covered include basic concepts of living organisms; their organization from atoms to organisms directed specifically toward the human being. Functioning and some disorders of various systems in the human body are taught. Three (3) lecture hours per week.

CBIO 111/111L General Biology I 4 Credits

This course introduces the basic principles of biology, covering cells, cell organelles, and genetics. The cell surface; roles of plastids and mitochondria in cell energetics; and the role of the nucleus in cell division and regulation are given special emphasis. Specific topics included in the course are cell chemistry, concepts of molecular biology, mitosis and meiosis. Three (3) lecture hours and three (3) laboratory hours per week.

CBIO 111H/111L General Biology I (Science Majors) 4 Credits ea.

CBIO 111H/L: Introduction to the basic principles of biology: covering cells, organisms and genetics. Three (3) lecture hours and three (3) laboratory hours per week.

CBIO 112/112L General Biology II 4 Credits

This course is the second part to the general biology requirement for majors. Fundamental principles, concepts, and facts of specific areas in biology, such as development, behavior, population biology, and ecology are presented. Topics cover mammalian physiology and general anatomy (nervous, hormonal, muscular, circulatory, excretory systems), with emphasis on regulation at the level of the organism. Three (3) lecture hours and a three (3) hour laboratory per week. *Prerequisite*: CBIO 111.

CBIO 112H/112L General Biology II (Science Majors) 4 Credits

This course is the second part to the basic principles of biology: covering cells, organisms and genetics. Three (3) lecture hours and three (3) laboratory hours per week.

CBIO 230 Human Anatomy and Physiology I 4 Credits

This introductory course covers the basics of human anatomy and physiology including anatomical terminology, basic biochemistry, cells and tissues, and the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Laboratory component includes anatomical studies using microscopy and dissection and the study of physiological concepts via virtual labs. *Prerequisites*: CBIO 111 and CBIO 112.

CBIO 231 Human Anatomy and Physiology II 4 Credits

This course is the second of a two-semester sequence including the study of the endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Introduces common human disease processes. Laboratory component includes anatomical studies using microscopy and dissection and the study of physiological concepts via virtual labs. *Prerequisites*: CBIO 111, CBIO 112 and CBIO 230.

CBIO 233/233L Microbiology 4 Credits

This course focuses on the study of microorganisms with emphasis on bacteria and viruses. The physiology and metabolism of bacteria, bacterial growth, metabolic regulation, genetics of bacteria, genetic resistance to antibiotics, and survey of the major groups of bacteria, viruses, and diseases associated with bacteria and viruses are studied. Three (3) lecture hours and a three (3) hour laboratory required per week. *Prerequisites*: CBIO 111, CBIO 112 and CCHE 111.

CBIO 251/251L Vertebrate Anatomy and Embryology 4 Credits

Students are required to make comparative studies of the structure, functions and ontogenesis of the vertebrates in this course. Structural origin and mechanisms of development are emphasized. Three (3) lecture hours and a three-(3) hour laboratory required per week. *Prerequisites*: CBIO 111 and CBIO 112.

CBIO 255/255L Invertebrate Zoology 4 Credits

The classification, morphology, physiology, phylogeny, and ecology of invertebrate animals are presented. Laboratory work includes practical anatomy and physiology of indigenous and exotic species. Three (3) lecture hours and a three-(3) hour laboratory required per week. *Prerequisites*: CBIO 111 and CBIO 112.

CBIO 261/261L Environmental Biology 4 Credits

The study of living things and their impacts on each other and the environment is the focus of this course. An introduction to basic biological principles and how they relate to our environment are presented. Problems caused by human use of the natural world along with general principles of ecology, chemistry, microbiology, and public health are emphasized. Specific topics covered in the course include: life's diversity, biogeochemical cycles, biology of wastewater treatment, pests and disease vectors, environmental pollution, pesticides and human health, and environmental laws. Three (3) lecture hours and a three-hour laboratory required per week. *Prerequisites*: CBIO 111 and CBIO 112.

CBIO 300/300L Histological Technique 4 Credits

This laboratory course deals with the microscopic and ultramicroscopic anatomy of mammalian tissues and organs with emphasis on relating structure to function. Two (2) lecture hours and a four-hour laboratory required per week. *Prerequisites*: CBIO 111, CBIO 112, CCHE 111 and CCHE 112.

CBIO 312/312R Genetics I 4 Credits

General study of the fundamental principles of genetics, including chromosome structure, the chromosomal basis of inheritance, meiosis, Mendelian genetics, linkage, human genetics, cytogenetics, DNA replication, quantitative genetics, molecular genetics, gene function, gene regulation and bacterial genetics. Three (3) lecture hours and a two-hour recitation period required per week. *Prerequisites*: CBIO 111, CBIO 112, CCHE 111 and CCHE 112.

CBIO 315 Biomedical Experimentation 3 Credits

This course will cover topics related to the responsible conduct of research such as conflicts of interest, responsible authorship, policies regarding the use of human and animal subjects, handling misconduct, proper data management, research funding rules and procedures. Students will review and present case studies for class discussion. *Prerequisites*: CBIO 111 and 112.

CBIO 331/331L Plant Biology 4 Credits
Introductions to the major groups in the plant kingdom, emphasizing the vascular plants are the focus of this course. Students explore the

structure, function diversity, ecology, and physiology of plants. The laboratory emphasizes microscopy, experimentation and may include field trips. Three (3) lecture hours and three (3) laboratory hours required per week. *Prerequisites*: CBIO 111 and CBIO 112.

CBIO 356/356L Comparative Vertebrate Anatomy and Embryology 4 Credits

This course focuses on the comparative study of the structures, functions and the ontogenesis of the vertebrates. Structural origin and mechanisms of development are stressed. Three (3) lecture hours and three (3) laboratory hours per week. *Prerequisites*: CBIO 111, CBIO 112, CCHE 111 and CCHE 112.

CBIO 375 Cell and Molecular Biology 3 Credits

Study of the origin and structure of cell organelles and comparative and integrated presentation of the fundamental physiochemical mechanisms associated with the living cell. Three (3) lecture hours per week. *Prerequisites*: CBIO 111, CBIO 112, CCHE 111 and CCHE 112.

CBIO 390 Introduction to Biochemistry 3 Credits

Survey of basic principles of biochemistry and molecular biology, emphasizing broad understanding of chemical and biological events in living systems. The course emphasizes the major biochemistry topics including sugars, amino acids, peptides, nucleic acids, lipids, enzymes, cofactors, vitamins, hormones and the operation of metabolic pathways. *Prerequisites*: CBIO 111, CBIO 112, CCHE 111, CCHE 112, CCHE 231 and CCHE 232.

CBIO 415 Physical Chemistry for Biologists 3 Credits

This course places emphasis on the use of biological examples to illustrate the principles of physical chemistry. The relevance of physical chemistry to biology is stressed. Topics introduced include: quantitative modeling in bioinformatics and systems biology; basic principles of statistical thermodynamics; chemical kinetics with selected applications in bio-molecular systems; molecular driving forces in biology; and computation with biomolecular structures and selected quantitative models of bio-molecular networks. *Prerequisites*: CBIO 111, CBIO 112, CCHE 111 and CCHE 112.

CBIO 420 Biology of Radioactive Materials 4 Credits

This course will review types of ionizing radiation and their differences, physical and chemical interactions of radiation with key biological molecules, effects on living matter beginning with molecular and cellular interactions and proceeding to tissue, organ, and organism levels, emphasizing the human system. Radiation's beneficial effects in cancer therapy and medicine as well as detrimental and carcinogenic effects will be discussed. Specific units will consider food irradiation, nuclear power plant accidents, radiation terrorism, everyday sources of exposure to humans, and other practical situations involving radiation. *Prerequisites*: CBIO 111, CBIO 112, CCHE 111, CCHE 112 and CBIO 261.

CBIO 465 Endocrinology 3 Credits

This course focuses on the endocrine system, including anatomy of the brain, neuroendocrine control, gland and function, hormone structure and biosynthesis, mechanisms of hormone action, and relationship to reproduction, lactation, growth, and metabolism. *Prerequisites*: CBIO 111, and CBIO 112 and CBIO 491 or CBIO 390. This course emphasizes the study of photosynthesis, nitrogen metabolism, and hormones in vascular plants. Three (3) lecture hours and four (4) laboratory hours required per week. *Prerequisites*: CBIO 111, CBIO 112, CCHE 111 and CCHE 112. Recommended: CBIO 331.

CBIO 476/476L Human Physiology 4 Credits

Students study the functions of the various tissues, organs, and organ systems of humans, with emphasis on the mechanisms, the cause and effect of hormonal actions, neurotransmission, cardiovascular control and muscle contraction in this course. Three (3) lecture hours and one hour of recitation required per week. *Prerequisites*: CBIO 111, CBIO 112, CCHE 111 and CCHE 112.

CBIO 478L Cell Biology Laboratory 3 Credits

Introduction to experimental design, laboratory procedures, and instrumentation. Cell culture, cell growth kinetics, enzyme purification and kinetics, bacterial genetics studies, virus isolation and replication, column chromatography, protein synthesis and isolation of cell organelles. Two (2) 2.5-hour laboratories required per week. *Prerequisites*: CBIO 111, CBIO 112, CBIO 312, CCHE 111, CCHE 112, CCHE 231, and CCHE 232. *Co-requisite*: CBIO 375.

CBIO 480 Research in Biology 1-9 Credits

An independent faculty-supervised laboratory investigation course on topics of special interest. Students present periodic reports and are required to make an oral presentation and submit a written paper on their research project. This course is offered each semester may be repeated for varying credit hours up to 9 hours. *Prerequisite*: Permission of department chair and faculty research supervisor. A maximum of nine (9) credits of research can be applied toward graduation.

CBIO 482 Seminar in Biology 1 Credit

Students present scientific seminars on contemporary biological topics. Students are required to make an oral presentation on the selected topic and submit a written paper. One (1) lecture hour per week.

CBIO 484 Eukaryotic Gene Control 3 Credits

This course will cover the molecular mechanism by which genes are regulated in eukaryotes, including humans. Topics include the role of gene regulation during normal development and disease (e.g., cancer), the organization and packing of DNA into chromatin, chromatin modifications, epigenetics, non-coding RNAs, transposable elements, gene regulatory networks, genomic detection of gene expression and bioinformatics analysis of differential gene regulation.

CBIO 491/491R Biochemistry I 3 Credits

Topics in this course focus on the structure and function of proteins, nucleic acids, carbohydrates, and lipids. Three (3) lecture hours and one hour of recitation required per week. *Prerequisites*: CBIO 111, CBIO 112, CCHE 231 and CCHE 232.

CBIO 492/492R Biochemistry II 3 Credits

Intermediary metabolism and the control mechanisms involved in DNA replication and introductory recombination are presented. Three (3) lecture hours and one (1) recitation hour per week. *Prerequisites*: CBIO 111, CBIO 112, CBIO 491, CCHE 231 and CCHE 232.

CBIO 499 Special Topics 1-4 Credits

The course is designed to present selected contemporary topics in biology. The course may be repeated for credit when topic varies. **Prerequisites**: CBIO 111, CBIO 112. Some topics may require permission of the instructor.

Morehouse School of Medicine

HBIO 240* Introduction to Public Health 3 Credits

This course is designed to give students a strong foundation in the administration and practice of public health; to provide an understanding of the technical, social, and political parameters surrounding public health research and practice. The course includes a lecture series; field trips to local, state, and federal agencies and services; and a research project.

HBIO 330* Introduction to Epidemiology 3 Credits

This course is a study of the distributions and determinants of health related states and events in populations with a view toward identifying the etiology (the study of the causes and origin of diseases) of diseases. It includes fundamental strategies for epidemiological research; the framework for assessing valid statistical associations and making judgments of causality; measures of disease frequency and association; detailed discussions of the various types of study designs, analysis, and interpretation of epidemiological data; and methods of the evaluation and control of chance, bias, and confounding in assessing the presence of a valid statistical association.

HBIO 340* Biostatistics 3 Credits

This course is designed for applications of statistics in the biomedical and health sciences. It introduces parametric and non-parametric statistical methodology, including descriptive measures, elementary probability, estimation and hypothesis testing, correlation, regression and single factor analysis of variance. Underlying theory is empirically demonstrated utilizing biomedical applications. Computer-based statistical analysis is used throughout the course. (Electives from any of the AUC schools that have a similar course description may substitute for this course)

HBIO 450* Public Health Sciences Seminar and Practicum 3 Credits

This course is designed to provide students with a forum for discussion and critical analysis of contemporary health care issues while providing practical experience in a health service agency. * Courses for Public Health Minor offered at Morehouse College.

CBIO 511 or CCHE 551 Biochemistry I 3 Credits

This course focuses on biosynthesis and biological significance of carbohydrates, lipids, proteins, enzymes, nucleic acids and other endogenous compounds.

CBIO 512 or CCHE 552 Biochemistry II 3 Credits

This course focuses on biosynthesis and the biological significance of carbohydrates, lipids, proteins, enzymes, nucleic acids and other endogenous compounds.

CBIO 551 Biostatistics 3 Credits

This course focuses on the statistical theory and methods as applied to biological research.

CBIO 552 Bioinformatics 3 Credits

The general objective of this course is to provide a one-semester introduction and overview to the fields of bioinformatics and genomics. Bioinformatics is an emerging field that comprises the intersection of biology, mathematics, and computer science to address biological and medical research problems. *Prerequisites*: Graduate students must have completed the CBIO 551 (biostatistics) or equivalent. Undergraduate students must be junior status, GPA 3.0 or higher, a course in Biostatistics/Statistics (200 level or above) and permission of instructor.

CBUS 120 Introduction to Business 3 credits

The purpose of this course is to present a fundamental appreciation of the development American business as well as recognition of the challenges provided to the business organization and its leaders. In addition, this course examines various functions of business, the challenges and obstacles of creating a business endeavor as well as basic business computer understandings.

CBUS 206 Management Information Systems 3 Credits

This introductory course contains ideas, concepts, and principles on the basic information systems to which every business student should be exposed in the core business requirement. It integrates both computer concepts and information systems concepts, and provides a strong managerial emphasis. *Prerequisites*: CBUS 120, CCIS 100, CMAT 105.

CBUS 207 Principles of Accounting I 3 Credits

CBUS 207 is the first course of the two-semester sequence of Principles of Accounting that introduces business students to generally accepted accounting principles. The primary objective of the course is to help students understand (a) basic concepts and theories of contemporary external financial accounting and reporting per Generally Accepted Accounting Principles (GAAP) and (b) procedures used to measure, record, and report financial data related to the topics to be covered. The topics in this first course include the accounting cycle and cover the fundamentals of recording and accumulating accounting data and the preparation, meaning, and uses of financial statements. **Prerequisite:** CBUS 120, CMAT 105

CBUS 208 Principles of Accounting II 3 Credits

CBUS 208 is the second course of the two-semester sequence of Principles of Accounting. Topics to be covered include cost concepts, job order costing, process costing, cost-profit-volume analysis, performance evaluation tools, master budgeting process, capital budgeting process, analysis of variance, activity based accounting process, analysis of financial statements and cash flow statement. *Prerequisites*: CBUS 120, CBUS 207 with a minimum grade of "C".

CBUS 209 Accounting for Non-business Majors 3 Credits

An introduction to financial and managerial accounting, with emphasis on the content, interpretation, and uses of accounting reports. Discussion of the determination and reporting of net income and financial position, and the theories underlying business financial statements; consideration of managerial accounting topics designed to extend the student's knowledge to the planning and controlling of the operations of the firm.

CBUS 250 Survey of Financial Planning 3 Credits

Overview of the financial planning process for individuals and families: financial planning statements, cash flow management, time value of money, and planning with respect to education, insurance, investments, tax, retirement, and estate transfers. Through classroom lecture, examination, and assignments the students will gain an understanding of how the financial planning process can benefit families and individuals. Students will have the opportunity to apply basic financial planning knowledge gained through assigned readings and lectures by completing assignments and exams. At the conclusion of this course, students will be familiar with financial planning processes, content areas, and techniques.

CBUS 285 Real Estate Principles and Practices 3 Credits

Introduction to real estate terms, concepts and attributes. The appraisal process and real estate law are also studied. This course meets the educational requirements for the Georgia Real Estate Sales license. This course is counted only as a general elective and not a finance concentration elective.

CBUS 295 Leadership and Professional Development I 1 Credit

The Leadership and Professional Development courses are designed to help students identify, appreciate and capitalize on natural strengths that will enable them to communicate, learn, and think more effectively. They will also be able to make critical decisions more efficiently and set realistic goals for success in college and the world of work. Students learn leadership attributes, roles and responsibilities; resume preparation, teamwork and group presentations, emotional intelligence, importance of credit and being credit worthy, etiquette skills, conflict resolution as well as other personal and professional development skills needed to function successfully in today's business environments. *Prerequisites*: Minimum grades of "C" in CGED 100 and CGED 101.

CBUS 303 Intermediate Accounting I 3 Credits

This course is the first of three-course financial accounting series providing a theoretical foundation, concepts, and principles underlying financial statements; current liabilities; property, plant, and equipment; short-term investments; present value analysis. *Prerequisite*: CBUS 208 with a minimum grade of "C".

CBUS 304 Intermediate Accounting II 3 Credits

This course is the second of a three-course financial accounting series, providing an in-depth study of the accounting cycle, conceptual framework of financial accounting, valuation of balance sheet accounts, recognition of revenues, matching of expenses, and the reporting of the financial condition, operating results, and cash flows of an entity. *Prerequisite*: CBUS 303 with a minimum grade of "C".

CBUS 305 Cost Accounting 3 Credits

Analysis of manufacturing costs, development of cost estimates, and preparation of relevant information for management decision making. *Prerequisite*: CBUS 207 and CBUS 208 with minimum grades of "C".

CBUS 308 Accounting Information Systems 3 Credits

Accounting information systems of organizations. Topics include selected hardware and software concepts, fundamentals of accounting information systems analysis, design, implementation, and control. *Prerequisite*: CBUS 303 with a minimum grade of "C".

CBUS 313 Statistics I 3 Credits

Provides basic statistical concepts, techniques, and applications to business decision making. This course covers the descriptive aspects for statistics, involving data collection, organization, presentation, and introduces students to probability and inferential statistics. *Prerequisite*: CBUS 120, CMAT 109 and CMAT 110.

CBUS 314 Statistics II 3 Credits

The topics covered in this course include analysis of variance, simple regression, multiple regression, correlation, Chi-square distribution and analysis of frequencies, and time-series analysis and forecasting. The statistical software package is used. *Prerequisite*: CBUS 313.

CBUS 315 Systems Analysis and Design 3 Credits

This course provides students with a practical approach to systems analysis and design, using a blend of traditional development with current technologies to solve business problems. Students become familiar with how systems analysts interact with users, management, and other IT professionals in a typical business organization. The systems development life cycle (SDLC) is used to analyze, design, and develop projects. *Prerequisite*: CBUS 206

CBUS 317 Enterprise Integration Systems 3 Credits

In this course students learn about the supply chain management programming environment, including data and communications protocols/standards, server and client operating systems, and a working knowledge of at least one on-line Enterprise Resource Planning Application. Students are prepared to understand their business functions. In this course students obtain hands-on experience with the actual systems that are used to actually provide this functional integration. Enterprise integration is not only about software but also about

the power of automation on business productivity. Students will be provided with the concepts of enterprise resource planning and extensive exposure to SAP. *Prerequisite*: CBUS 206.

CBUS 325 Business Communication 3 Credit

This is an advanced writing course which adapts standard English to the needs of business. The student develops a working knowledge of written and oral communication and strengthens interpersonal and professional communication skills and job-search techniques. *Prerequisites*: CENG 105, CENG 106, and CSTA 101

CBUS 330 Legal, Social, and Ethical Aspects of Business I 3 Credits

Introduction to business law. This course surveys the nature, types, and functions of laws regulating businesses. Students are introduced to the role of the court systems in business and the concepts of contract and agency. Students are also introduced to the social and ethical aspects of business. *Prerequisite*: CBUS 120

CBUS 331 Legal, Social, and Ethical Aspects of Business II 3 Credits

Continuation of CBUS 330. Examines partnerships, corporations, commercial paper, secured transaction sales, consumer credit, bankruptcy, and modern legislation regulating business. Increased emphasis on social and ethical responsibilities of management. **Prerequisite**: CBUS 330.

CBUS 335 Principles of Marketing 3 Credits

This course provides an overview of the core concepts of marketing. Emphasis is placed on developing an ethical framework which uses the elements of the marketing mix to provide customer satisfaction in the global marketing of goods and services. Topics include assessment of the marketing environment, designing and conducting marketing research, and determining what elements are most important to customers as they make purchasing decisions. *Prerequisites*: CBUS 120, CMAT 109

CBUS 336 Consumer Behavior 3 Credits

This course provides an overview of the processes that consumers utilize to evaluate, purchase, use and dispose of goods and services expected to satisfy their needs. Insights into consumer identity issues are provided as a background for presenting the consumer behavior concepts, processes, and models that help explain differences in consumer's pre- and post-purchase behavior and choice. Implications for marketing strategies (e.g., market research procedures, market segmentation, product design, pricing, and promotion) are discussed. *Prerequisite*: CBUS 335.

CBUS 337 Introduction to International Business Management 3 Credits

Studies domestic and foreign environmental factors affecting the international operations of United States business firms. The course stresses personal experiences and observations regarding leadership and helps students assess leadership qualities and style. *Prerequisite*: CBUS 340.

CBUS 340 Principles of Management 3 Credits

Conceptual framework for the study, evaluation, and practice of management. Emphasis is on planning, leading, organizing, staffing, influencing, and controlling as these factors affect managerial decision making. Addresses problems, opportunities, and decision making within organizations. *Prerequisites*: CBUS 120, CMAT 109

CBUS 341 Business Finance 3 Credits

The basic concepts and analytical tools of finance in both corporate finance and investments. Topics include risk and return, financial institutions, efficient markets, valuation theory, capital budgeting, portfolio theory, cost of capital, and international finance. *Prerequisites*: Minimum grades of "C" in CBUS 120, 207 and CBUS 208 and CMAT 109.

CBUS 360 Principles of Insurance 3 Credits

Study of the basic uses and functions of insurance as applied to the overall treatment of risk. Presented from the viewpoint of the consumer. **Prerequisite**: Minimum grade of "C" in CBUS 341.

CBUS 362 Supply Chain Management 3 Credits

Upon the completion of this course, the students will be able to describe key supply chain management concepts, understand the strategic importance of supply chain management in improving a firm's competitive position, and learn about the opportunities and problems faced in strategic sourcing environment. *Prerequisite*: CBUS 206.

CBUS 364 Procurement and Supply Management 3 Credits

This course addresses the strategic and operational role of the purchasing and supply management functions in the modern organization. The aim of this course is to get students acquainted with the fundamental concepts, models, and instruments in the area of purchasing and supply management. Through web-based projects, case assignments, and industry presentations, the course will provide insights into the current developments, newest ideas, and biggest problem areas in this field. *Prerequisite*: CBUS 362.

CBUS 366 Project Management 3 Credits

This course provides an overview of the structured process for managing projects. The emphasis is on the defining, planning, scheduling, organizing, implementing, and controlling of single and multiple projects, in order to successfully complete them within quality specifications, on schedule, and within budget. Other topics include project organization, roles of the project manager and team members, and project leadership. Additionally, the importance of communication and people management is integrated throughout the discussion. *Prerequisites*: CBUS 206 and CBUS 362.

CBUS 368 Real Estate Finance and Investments 3 Credits

The instruments, techniques, and institutions of real estate finance; sources of funds; mortgage risk analysis: emphasis on typical policies and procedures used in financing of residential, industrial, and commercial properties. *Prerequisite*: Minimum grade of "C" in CBUS 341.

CBUS 372 Personnel Management 3 Credits

This course explores behavior and human performance in the organization. Students examine structure, the selection process, performance appraisal, control systems, and reward practices as means of affecting human behavior in organizations. *Prerequisite*: CBUS 340.

CBUS 373 Sports and Entertainment Marketing 3 Credits

This course is designed for students interested in application of marketing principles to sports, entertainment, and event marketing. Emphasis is placed on the following principles as they apply to the industry: branding, licensing, and naming rights; business foundations; concessions and on site merchandising; economic foundations; promotion; safety and security; and human relations.

CBUS 374 Sports and Entertainment Law 3 Credits

An examination of the sports and entertainment industry requires delving into the law of contracts, labor, anti-trust, intellectual property, torts, Internet and the U.S. Constitution. Our analysis begins by studying college sports, amateur sports, Olympic sports, and Title IX's impact on athletic opportunities for women. A significant amount of the classroom material is devoted to surveying the major professional team sports including looking at collective bargaining agreements, labor discord, privacy, salaries, drug testing and freedom of movement from team to team. The economic aspects of both professional sports and movie industry are explored. This includes looking at team franchise movement in professional sports and financing, producing, and distributing movies and TV. The role of the Screen Actors Guild is reviewed at length. Agency law is also examined in the context of the relationships involving agents (and/or managers) that represent celebrities and athletes.

CBUS 375 Managing and Operating in the Sports and Entertainment Industry 3 Credits

This course offers an overview of the sport business and entertainment industry and examines the principles and applications of sport business and entertainment management in professional, collegiate, and Olympic sports. Issues such as talent identification, hiring and firing, and cultural, social and community issues are explored.

CBUS 380 Entrepreneurial Thinking 3 Credits

Focuses on all aspects of starting a business: selecting promising ideas, initiating new ventures and obtaining initial financing. Examines analysis of procedures necessary for developing or acquiring a major management and equity position in a new or existing business venture. Concentrates on how ventures are begun, how venture ideas and other key ingredients for start-ups are derived, and how to evaluate new venture proposals. Explores business plan development.

CBUS 381 Financing Entrepreneurial Ventures 3 Credits

Students will learn that the most difficult part of launching a new enterprise is financing. Various financing options will be discussed and Explored. Special emphasis will be placed on nontraditional and emerging financing techniques emerging on the internet.

CBUS 382 Marketing the Entrepreneurial Venture 3 Credits

Students will explore the various options available to market their venture. Emphasis will be placed on the use of low-cost and not cost strategies and tactics. Use of technology and social media will be reinforced and evaluated.

CBUS 395 Leadership and Professional Development II 1 Credit

The Leadership and Professional Development courses are designed to help students identify, appreciate, and capitalize on natural strengths that will enable them to communicate, learn, and think more effectively. They will also be able to make critical decisions more efficiently and set realistic goals for success in college and the world of work. Students learn leadership attributes, roles and responsibilities; resume preparation, teamwork and group presentations, emotional intelligence, importance of credit and being credit worthy, etiquette skills, conflict resolution as well as other personal and professional development skills needed to function successfully in today's business environments. *Prerequisite*: Minimum grade of "C" in CBUS 295, Leadership and Professional Development I, CGED 100 and 101.

CBUS 405 Auditing and Control 3 Credits

Examination of basic auditing concepts and practices, and the auditor's professional responsibilities. Emphasis) A case-based graduate seminar that provides the students with the opportunity to identify and research issues in accounting. Developing the students' professional written communication skills is an important component of this course. Emphasis is on auditing standards and the auditing procedures commonly used in public accounting. The course emphasizes practice standards and procedures of auditing: ethics, legal liability, sampling methods, control systems, control design, and control evaluation. *Prerequisite*: CBUS 303 and CBUS 304 with a minimum grade of "C".

CBUS 411 Retailing 3 Credits

A study of the basic concepts and principles of retailing and its role in distribution in terms of administrative organization, site selection, buying, pricing, merchandising, promotions and current trends in retailing. *Prerequisite*: CBUS 335.

CBUS 420 International Financial Management 3 Credits

International business decision making emphasizing the effects of internationalized financial and non-financial markets. Exchange rate analysis, hedged costs of funds, economic exposure and management, capital budgeting, financial and corporate strategy, and the evaluation of international risks and returns. *Prerequisite*: Minimum grade of "C" in CBUS 341.

CBUS 421 Introduction to Professional Sales 3 Credits

A study of the theory and practice of professional sales with special emphasis on application of concepts in actual sales presentations. **Prerequisite**: CBUS 335.

CBUS 422 International Marketing 3 Credits

Analysis of the multinational process of planning and promotions of goods, ideas, and services worldwide. Special consideration of Third World economics is stressed. *Prerequisite*: CBUS 335.

CBUS 426	Individual Income Tax	3 Credits
LBU5 420	i individual income rax	1 3 Creatts

Introduction of tax preparation for individuals using the Internal Revenue Code and rulings; individual tax planning; tax-payer rights and responsibilities will be covered in this course. *Prerequisite*: CBUS 207 and CBUS 208 with minimum grades of "C".

CBUS 427 Business Income Tax 3 Credits

Review of federal taxation associated with the organization, operation, and dissolution of corporate partnership and tax-exempt organizations. Introduction to federal estate and gift taxes and to income taxation of trusts and estates. *Prerequisite*: CBUS 426 with a minimum grade of "C".

CBUS 431 Principles of Advertising 3 Credits

Course is designed to introduce students to the field and practice of advertising with an emphasis on the pervasiveness of advertising in contemporary society. The student will develop knowledge of the business, creation and media placement of advertising, and will become acquainted with advertising management, strategies and processes. *Prerequisite*: CBUS 335.

CBUS 434 Enterprise Integration Applications 3 Credits

Students learn about the mainframe, midrange supply chain management programming environment, including back office applications, data and communications protocols/standards, server and client operating systems, legacy applications, and a working knowledge of at least one large system programming language (e.g. COBOL).

CBUS 436 Data Mining/Visualization 3 Credits

This course is designed to teach students how to apply and utilize standard statistical analysis techniques to identify trends and make recommendations based on systems generated data. Topics include: performance management, techniques for data mining, market research, regression analysis, and multivariate analysis. The students will gain a working knowledge of several statistical analysis packages. *Prerequisite*: CBUS 362.

CBUS 445 Marketing Research 3 Credits

This course focuses on the gathering, analysis, and presentation of information to guide marketing decisions. Topics taught include research project design, use of information sources, and research report preparation. *Prerequisites*: CBUS 313 and CBUS 335.

CBUS 450 Marketing Management 3 Credits

Develops the environmental, managerial, and strategic planning aspects of marketing theory and practice. Experience in producing an actual marketing plan. *Prerequisites*: CBUS 313 and CBUS 335.

CBUS 451 Management of Financial Institutions 3 Credits

The basic concepts and analytical tools of finance in both corporate finance and investments. Topics include risk and return, financial institutions, efficient markets, valuation theory, capital budgeting, portfolio theory, cost of capital, and international finance. *Prerequisite*: Minimum grade of "C" in CBUS 341.

CBUS 452 Security Analysis and Portfolio Management 3 Credits

Analysis and evaluation of investments in various types of listed securities including stocks, bonds, and mutual funds and their performance utilizing financial and statistical models with the aid of investment software. Topics include legal and ethical issues in the investment industry and international investment alternatives. Students are introduced to the fundamentals of diversification portfolio management and performance measurement. *Prerequisite*: Minimum grade of "C" in CBUS 341.

CBUS 453 Corporate Finance 3 Credits

Development of a framework that is useful for understanding a broad range of important corporate financial decisions. Substantial emphasis will be placed on discussion of the determinants of corporate financing and payout policies, alternative methods of security issuance, and mergers and acquisitions. *Prerequisite*: Minimum grade of "C" in CBUS 341.

CBUS 454 Financial Analysis and Decision Making 3 Credits

Exposes students to various forms of financial decision making in a variety of contexts. Students will practice decision-making skills using financial contexts analysis in assessing firm performance, evaluating financial statement analysis, financial forecasting, and investment and financing decision analysis. Textbook case studies and computer software with current technology for financial modeling and data analysis are utilized. *Prerequisite*: Minimum grade of "C" in CBUS 341.

CBUS 458 Retirement Planning and Employee Benefits 3 Credits

This course provides individuals with knowledge of both public and private retirement plans. The public plans include Social Security, Medicare, and Medicaid. The private plans include pension, profit sharing, defined benefit, defined contribution, nonqualified, and individual plans and their regulatory provisions. The specifics of the various qualified and tax advantaged plans are analyzed as well as non-qualified deferred compensation plans. Other issues that individuals face during employment and retirement are also discussed, such as life-style choices, and health issues. Retirement plans are often offered as part of an overall benefits package that employees are offered through their employer. Specifics about several employee benefits will be discussed in the course as well. *Prerequisite*: Minimum grade of "C" in CBUS 250 and CBUS 341.

CBUS 459 Estate Planning 3 Credits

Estate Planning deals with the efficient accumulation, conservation and distribution of a client's acquired property. This course covers estate planning techniques which may be used during a client's life, as well as at death, in order to meet stated objectives. The identification and use of appropriate forms of wills and trusts is set forth. Techniques for reducing, freezing, or eliminating the Unified Transfer Tax are explained and applied to client situations. Finally, post-mortem planning techniques are identified and explained. *Prerequisite*: Minimum grade of "C" in CBUS 250 and CBUS 341.

CBUS 460 Operations Management 3 Credits

This course provides students with an understanding of the primary activities of the operations function in organizations. Intended to develop skills in the art of formulating quantitative models of real world decision making, operations strategy, and business applications including cost-benefit analysis, forecasting, problem design and processing, planning, allocating scarce resources, facility locations, layouts, scheduling, and inventory management. Students will experience the extensive use of the computer to assist in solving the business problems. *Prerequisite*: CBUS 120, 206 OR 308, 334, and CMAT 109.

CBUS 461 Strategies in Financial Planning (Capstone Course) 3 Credits

In this Financial Planning Capstone course students' knowledge, critical thinking, and decision-making skills in financial planning will be reinforced through the analysis of financial planning case studies. Students will develop comprehensive financial recommendations for clients based on clients' financial situations, expectations, and goals. *Prerequisites*: Minimum grade of "C" in CBUS 250 and CBUS 341, CBUS 426, CBUS 458 and CBUS 459.

CBUS 462 Advanced Topics in Supply Chain Management 3 Credits

This course provides in-depth treatment of one or more advanced areas of supply chain management. The topics will vary with each offering. *Prerequisite*: CBUS 362.

CBUS 465 Advanced Accounting 3 Credits

Accounting problems with respect to multiple ownership; consolidated financial statements and partnership accounts; foreign currency translation; segmental reporting; other special topics. *Prerequisite*: CBUS 304 with a minimum grade of "C".

CBUS 468 Organizational Behavior 3 Credits

Exploration of organizational behavior and human performance in organization. Students examine structure, the selection process, performance appraisal, control systems, and reward practices as means of affecting human behavior in organizations. *Prerequisite*: CBUS 340 or CPSY 318, Industrial and Organizational Psychology, may be taken as a substitute course. Survey of methods and findings in the scientific study of humans at work as applied to business, industry and government. Topics include employee selection, training and motivation. *Prerequisites*: CPSY 211 and CBUS 313. Note: CPSY 318, Industrial and Organizational Psychology may be substituted for CBUS 468, Organizational Behavior.

CBUS 470 Database Management 3 Credits

Concepts and principles of database design and administration are covered. The students gain hands-on experience with relational databases, data mining concepts, and Web-based data-oriented applications. *Prerequisite*: CBUS 362.

CBUS 471 Global Leadership 3 Credits

Students will investigate the leadership tasks which face managers in companies with worldwide operations. Initially, students will identify the forces of global change and the strategic challenges which impact individuals, managers and organizations. Subsequently, students will examine the leadership characteristics required to manage global operations in a changing environment. *Prerequisite*: CBUS 340.

CBUS 472 Quality, Diversity, and Productivity 3 Credits

This course is designed in an integrated fashion that fosters an "emerging paradigm" of systems thinking and learning regarding the disciplines of quality, leadership and productivity improvement. It emphasizes the concepts of Total Quality Management (TQM), Six Sigma DMIAC process and its application to modern management and the global marketplace, the new paradigm of customer value, measurement positioning, key stakeholders, product design, and cross-functional organizational systems. In addition, it focuses on viewing quality as a strategic issue and the concept that good quality can be a strategic competitive advantage.

CBUS 474 Logistics Management 3 Credits

Analysis of logistics activities, including integration of transportation, inventory management, warehousing, facility location, customer service, packaging, and materials handling. Students will be exposed to online logistics support systems to better understand the real-time nature of transportation decisions on other business functions. *Prerequisite*: CBUS 362.

CBUS 476 Supply Chain Management Strategies 3 Credits

This course provides integrated supply chain management strategies, incorporating procurement and supply management, production, logistics, transportation, and enterprise systems. Strategies are developed around internal issues including employee relations, ergonomics and workplace changes; ethical issues; and external issues including vendor and customer relations, customer service, and regulatory considerations. *Prerequisite*: CBUS 362.

CBUS 478 Modeling the Supply Chain 3 Credits

This course provides students with discussions and examples that integrate qualitative and quantitative thinking about supply chain planning problems and models. A major approach relies heavily on optimization models, which provides frames or templates for such integration. The course attempts to demonstrate that optimization models and methods provide comprehensive systems approaches to integrated business planning, which is the essence of supply chain management. Firms that succeed in such efforts will realize a significant competitive advantage. *Prerequisite*: CBUS 362.

CBUS 480 Entrepreneurship and Enterprise 3 Credits

Analysis of procedures necessary for developing or acquiring a major management and equity position in a new or existing business venture. The course focuses on the problems of purchasing or initiating an enterprise and the analysis needed to address those problems rather than on day-to-day management. *Prerequisite*: CBUS 335.

CBUS 481 Entrepreneurial Practicum 3 Credits

This course seeks to immerse the student in real life experiences of an entrepreneur. Each student will be expected to spend 6-8 weeks interning in a small business in order to better hone their understanding of being an entrepreneur and the challenges that each faces. Afterwards, the student will utilize the knowledge learned to complete his/her Business Plan.

CBUS 482 3 Credits **Business Law for Entrepreneurs** This course seeks to immerse the student in legal issues related to entrepreneurs. It will take students through the various stages of starting a business from start-up and growth to an initial public offering. It will highlight the legal preparations and pitfalls that go along with them. **Labor Relations** Study of the history and development of organized labor, collective bargaining, and government's role in management-labor relations; consideration of the interaction of management and labor in relation to the bargaining process. **CBUS 484 Small Business Management** 3 Credits This course takes the student through the conceptual idea phase to opening and operating the business. Students will examine the process of new-business creation, including idea development, opportunity identification, market feasibility and financial challenges for new ventures. The student will learn how to create business plan. The class may include individual and/or team business plan competition. There will be a group of professionals along with the Professor, who will grade the plans at the end of the course. **CBUS 485 Business Policy** 3 Credits Integration of knowledge from various functional fields of business. Students approach policy making and administration from a topmanagement point of view. Prerequisites: CBUS 120, 207, CBUS 208, CECO 251, CECO 252; CBUS 335, CBUS 340 and CBUS 341 and CMAT 109. **CBUS 486** 3 Credits **Sports and Entertainment Practicum** This is a course through which students can culminate their educational and internship experiences by choosing a project that is germane to the student's career path. The project may be combined with an internship in the industry. **Contemporary Issues in Sports and Entertainment CBUS 487** 3 Credits Management This course will emphasize on the application and "real world" perspectives from people in the field (professional guest lecturers interact with students in the class). **CBUS 488** 3 Credits **Business Internship** Students obtain credit from practical experiences in supervised business internship programs. At least six (6) seminars from LPD program required and four (4) interviews through the Career Planning and Placement office (CPPC). Prerequisite: Approval of the department chair **CBUS 495** Leadership and Professional Development III 1 Credit The Leadership and Professional Development courses are designed to help students identify, appreciate, and capitalize on natural strengths that will enable them to communicate, learn, and think more effectively. They will also be able to make critical decisions more efficiently and set realistic goals for success in college and the world of work. Students learn leadership attributes, roles and responsibilities; resume preparation, teamwork and group presentations, emotional intelligence, importance of credit and being credit worthy, etiquette skills, conflict resolution as well as other personal and professional development skills needed to function successfully in today's business environments. Prerequisite: Minimum grade of "C" in CBUS 395, Leadership and Professional Development III and CGED 100 and 101. CCHE 111/111L/111R **General Chemistry I** 4 Credits This is the introductory course in college chemistry. The topics covered in this course include: stoichiometry, atomic structure, molecular structure and bonding and gas laws. Three (3) hours of lecture, three (3) hours of laboratory and three (3) hours of recitation are required. CCHE 111H/111L/111R **General Chemistry I** CCHE 111H: Fundamental theories and laws, chemical calculations, equations, periodic classification of the elements, structure of matter, and ionization. Three (3) lecture hours, three (3) laboratory hours and three (3) recitation hours per week. CCHE 112/112L/112R **General Chemistry II** 4 Credits The topics covered in this course include: kinetics, equilibria, thermodynamics, and electrochemistry. Three (3) hours of lecture, three (3) hours of laboratory and three (3) hours of recitation are required. Prerequisite: CCHE 111. CCHE 112H/112L/112R **General Chemistry II** 4 Credits Study of chemical and ionic equilibria, nuclear chemistry, chemistry of the metallic elements, and elementary qualitative analysis of cations and anions. Three (3) lecture hours, three (3) laboratory hours and three (3) recitation hours per week. **Analytical Chemistry I** 4 Credits Study of homogeneous and heterogeneous equilibria to include principles related to ionization, solubility, complex ions and molecules, oxidation and reduction in solution, redox potentials, electrochemical cells, and quantitative volumetric and gravimetric analysis. Three (3) lecture hours and six (6) laboratory hours per week are required. *Prerequisites*: CCHE 112/112L **CCHE 212/212L Analytical Chemistry II** 4 Credits Second half of the analytical chemistry sequence. Focuses on principles and stoichiometry relating to acidimetry, alkalimetry, redox methods, and iodometry. Gravimetric, electrometric, optical, chromatographic, and other modern instrumental methods of analysis and the basic chemical theory related to these procedures are studied. Three (3) lecture hours and six (6) laboratory hours per week are required. Prerequisites: CCHE 211/211L CCHE 231/231L/231R Organic Chemistry I 4 Credits This is an introduction of the chemistry of carbon. The topics covered include: bonding, molecular structure, reaction mechanisms and spectroscopy. Studies are the properties of aliphatic and aromatic compounds. Three (3) lecture hours, three (3) laboratory hours and one

and one-half (1.5) recitation hours per week are required. Prerequisites: CCHE 112/112L/112R.

CCHE 232/232L/232R **Organic Chemistry II** 4 Credits This is a continuation of CCHE 231. The topics covered include: bonding, molecular structure, reaction mechanisms and spectroscopy. Studies are the properties of aliphatic and aromatic compounds which include proteins, carbohydrates, drugs and biomolecules. Three (3) lecture hours, three (3) laboratory hours, and one and one-half (1.5) recitation hours per week are required. Prerequisites: CCHE 231/231L/231R **CCHE 341** Physical Chemistry I 3 Credits The study of the laws and theories of chemical phenomena, including elementary thermodynamics, the gaseous, liquid, and solid state, equilibria, and chemical kinetics (rates of chemical reactions, and kinetics of complex reactions, and some molecular reaction dynamics). Three (3) lecture hours per week. Prerequisites: CCHE 211/211L; CPHY 111/111L and CPHY 112/112L; CMAT 111, CMAT 112, CMAT 211, and CMAT 212. CCHE 341L/341R **Physical Chemistry Laboratory and Recitation** Laboratory investigations in physical chemistry. Experiments carried out include coverage of five major areas of physical chemistry: thermodynamics, spectroscopy, kinetics, quantum mechanics, and statistical mechanics. Three (3) laboratory and one (1) recitation hours per week are required. **CCHE 342 Physical Chemistry II** 3 Credits Elementary quantum mechanics, molecular reaction dynamics activated complex theory and dynamics of molecular collisions and the application of elementary quantum mechanics to atomic and molecular structure and spectroscopy. Three (3) lecture hours per week. Prerequisites: CCHE 211/211L; CPHY 111/111L and CPHY 112/112L; CMAT 111, CMAT 112, CMAT 211, and CMAT 212. CCHE 342L/342R **Physical Chemistry II Laboratory and Recitation** 1 Credit Laboratory investigations in physical chemistry. Experiments carried out include coverage of five major areas of physical chemistry: thermodynamics, spectroscopy, kinetics, quantum mechanics, and statistical mechanics. Three (3) laboratory and one (1) recitation hours per week are required.) Junior-level Chemistry Seminar I 0-1Credit **CCHE 381** This is a one-hour lecture/seminar course. CCHE 381 Zero (0) credit. CCHE 382 One (1) credit. One year of the course generates one credit. **CCHE 382** Junior-level Chemistry Seminar II 1 Credit This is a one-hour lecture/seminar course. CCHE 381, Zero (0) credits. CCHE 382, One (1) credit. One year of the course generates one credit. **CCHE 412/412L Instrumental Methods and Laboratory** 4 Credits A lecture and laboratory course covering the theory, design, practical uses and applications of typical spectroscopic and chromatographic instrumentation. Particular focus is on the application of the instrumentation for chemical analysis. Three (3) lecture hours and six (6) laboratory hours per week are required. Prerequisites: CCHE 211/211L, CCHE 341/341L/341R, and CCHE 342/342L/342R **CCHE 421/421L Inorganic Chemistry and Laboratory** 3 Credits This is an introduction to the descriptive chemistry of the elements. The topics covered in this course include: **Brønsted** and Lewis acids and bases, electronic and molecular structure and coordination chemistry. Three (3) lecture hours with laboratory each week are required. Prerequisites: CCHE 341/341L/341R and CCHE 342/342L/342R. **Advanced Organic Chemistry I and Laboratory CCHE 431/431L** 4 Credits This course is a study of the advanced topics in carbon chemistry. The topics covered include: Critical evaluation of modern organic theory mechanisms and rearrangements. It also includes a detailed study of important organic reactions and their application to selected laboratory experiments. Three (3) lecture hours and one (1) laboratory hour per week are required. Prerequisites: CCHE 231/231L/231R and CCHE 232/232L/232R. CCHE 432/432L **Methods of Structure Determination and Laboratory** 4 Credits This course covers the theory and techniques used in the determination of the structure of organic compounds. The topics covered include separation techniques as well as the use of UV/VIS, IR, NMR, ESR, Raman and mass spectroscopy to elucidate structures of organic compounds. Three (3) lecture hours and one (1) laboratory hour per week are required. Prerequisite: CCHE 431/431L **CCHE 441 Mathematical Methods in Chemistry** 3 Credits A study of the mathematical methods used in physical chemistry, including applications of linear algebra and differential equations. Three (3) lecture hours per week. Prerequisites: CCHE 341/341L/341R and CCHE 342/342L/342R. **Biochemistry I** 3 Credits This course is dual numbered with CBIO 491. An introduction to the structure and function of biological molecules, proteins, carbohydrates. lipids and nucleic acids. Three (3) lecture hours per week. Prerequisites: CCHE 231 and CCHE 232; CBIO 111 and CBIO 112. **CCHE 452** 3 Credits **Biochemistry II** This course is dual numbered with CBIO 492. Basic metabolic path ways governing the function of cells and tissues (intermediary metabolism). Fundamentals of enzymatic catalysis, including kinetics and mechanism. Three (3) lecture hours per week. *Prerequisites*: CCHE 231/231L/231R and CCHE 232/232L/232R; CBIO 111/111L and CBIO 112/112L. **Special Topics in Chemistry** 4 Credits Detailed study of a series of advanced topics in any area of chemistry. Students undertake independent projects. Three (3) lecture hours

per week with required laboratory

	Senior-Level Chemistry Seminar I	0 Credit
This is a one year one-hour lecture/s 482 one (1) credit.	eminar two-course sequence that generates one hour of credit; CCH	IE 481 zero (0) credit and CCH
CCHE 482	Senior-Level Chemistry Seminar II	1 Credit
This is a one year one-hour lecture/s 482 one (1) credit. <i>Prerequisite:</i> CCH	eminar two-course sequence that generates one hour of credit; CCH IE 481	IE 481 zero (0) credit and CCH
CCHE 511	Environmental Chemistry	3 Credits
develop a working level knowledge of	ort, reactions, effects, ultimate fate of hazardous waste in the environ f: (1) chemistry fundamentals; and (2) the basic principles and concespheric chemistry; (c) environmental microbiology; and (d) waste treatmental Methods	pts of environmental chemistry
An advanced lecture course focuses	on the typical theory, design, and practical application of spect	
instrumentation for chemical analysis	1	
CCHE 521	Advanced Inorganic Chemistry	3 Credits
theory. Three (3) lecture hours per w	oxidation-reduction and acid-base theory, and correlation with cher eek.	nical reactivity, and Ligand field
CCHE 531	Mechanistic Organic Chemistry	3 Credits
	nductive and steric effects and discussion reactive intermediates oint of view. Three (3) lecture hours per week.	s, nucleophilic substitution and
CCHE 532	Organic Synthesis	3 Credits
disconnection approach for the synth	clic and alicyclic compounds with emphasis on mechanisms. This esis of complex organic molecules. The course will present modern n o prepare target molecules. Three (3) lecture hours per week.	
CCHE 541	Thermodynamics	3 Credits
	ies and methods in chemical thermodynamics and equilibria incluents, and some applications to macromolecules. Three (3) lecture hour	
CCHE 542	Quantum Chemistry	3 Credits
	wave mechanics, with mathematical discussion of the hydrogen ingular momentum operators, and applications to small molecules ecture hours per week.	
CCHE 551	Advanced Biochemistry I	3 Credits
A study of the chemistry of carbohydr to biological systems, enzyme kinetic	rates, lipids, proteins, enzymes, and other compounds of biological sig s. Three (3) lecture hours per week.	gnificance and their application
CCHE 552	Advanced Biochemistry II	3 Credits
	metabolism of carbohydrates, lipids, proteins, nucleotides. An inter l genetics. Three (3) lecture hours per week.	nsive study of protein synthesis
CCHE 561	Topics in Industrial Chemistry	3 Credits
process and equipment design; qualit Lectures will be given by personn	oduct development. Laboratory synthesis; scale-up to pilot plant and cy control and environmental issues; product marketing; and chemical from a variety of areas of the chemical industry: energy is and detergents, etc. Three (3) lecture hours per week.	cal industry management issues
CCHE 562	Scale-Up for Chemists	3 Credits
material and energy balance; transp	the student with the principles of chemical production scale-up are nort phenomena involving momentum and energy transfer and un design. Three (3) lecture hours per week.	
CCHE 571	Introduction to Polymer Chemistry	3 Credits
Synthesis, including radical and ionic rheological properties of polymeric m	polymerization and polycondens reactions, structure-property relaterials.	ationships, characterization and
CCHE 572/572L	Techniques in Polymer Chemistry Lecture and Laboratory	3 Credits
polymerizations, molecular weight	idents to experimental polymer chemistry, synthesis using ionic, measurements by viscosity, osmometry, gel permeation and ements of thermal transitions. Two (2) lecture hours and two (2) lab	light scattering, spectroscopi
characterization of polymers, measur		

Course deals with interrelationships among polymer structure, physical properties, and useful behavior of polymers. Topics to be covered include chain structure and configuration, solution and phase behavior, glass-rubber transition behavior, rubber elasticity, polymer viscoelasticity and flow, mechanical behavior of polymers, etc. Three (3) lecture hours per week. **CCHE 700** Thesis Consultation 1 Credit ADD COURSE DESCRIPTION **CCIS 100 Information Technology and Computer Applications** 3 Credits A hands-on introduction to personal computer concepts and productivity applications. Computer concepts include basic architecture, the Internet, and operating systems. Productivity applications include word processing, spreadsheets, graphical presentations, and relational database usage. **CCIS 101 Computer Applications** 3 Credits An introductory course providing a practical overview of the primary topics in Computer Science. Introduction to computer applications, web page design and implementation with XHTML, CSS, and JavaScript **CCIS 104 Business Programming** 3 Credits An introduction to programming concepts for business majors. The classroom lecture utilizes a procedural pseudocode, while the associated recitations require hands-on programming. *Co-requisite*: CCIS 104R. (For all majors) **CCIS 104R Business Programming Recitation** 1 Credit A hands-on guided programming experience in developing COBOL and Visual BASIC programs. Must be taken while completing CCIS 104. Co-requisite: CCIS 104. (For all majors) **Programming Principles I** An introduction to the fundamental concepts of problem solving focusing on programming oriented solutions and object oriented paradigm. Students are encouraged to be enrolled in or to have already completed CMAT 111. Guided laboratory is required. Co-requisite: CCIS 101 and CCIS 105L. **CCIS 105L Programming Principles I Laboratory** 1 Credit A hands-on guided problem-solving experience that supplements CCIS 105. Co-requisite: CCIS 105. **CCIS 106 Programming Principles II** 3 Credits A continuation of CIS 105 teaching advanced concepts in computer programming using a modern programming language. Guided laboratory is required. Co-requisite: CCIS 106L. Prerequisite: CCIS 105 **Programming Principles II Laboratory** 1 Credit **CCIS 106L** A hands-on guided programming experience in developing programs. Co-requisite: CCIS 106. **CCIS 121** 3 Credits **Introduction to Computer Systems** Introductory study of logical organization of computer systems. Topics include input-output processing, memory and processor structures and basic logic circuit design. Assembly language programming will be emphasized. Prerequisite: CCIS 101. 3 Credits **CCIS 200 Programming Mobile Devices** Students learn programming concepts by building mobile apps for phones and tablets with the visual language App Inventor. **CCIS 223 Data Structures** 3 Credits Introductory study of data structures, including record, file, linked structures, lists, stacks, queues, graphs and trees. Guided laboratory is required. Co-requisite: CCIS 223L. Prerequisites: CCIS 106 and CCIS 1061 CCIS 223L **Data Structures Laboratory** 1 Credit A hands-on guided data structures programming and problem-solving experience that supplements CCIS 223. Co-requisite: CCIS 223. **CCIS 227 Discrete Structures** 3 Credits An introductory study of prepositional and predicate systems, including topics such as standard forms, resolution principle and refutation algorithms, computability, Finite State Automata and Turing Machines, with specific reference to applications in Computer Science. Prerequisite: CCIS 106 and CMAT 111. Scientific Computing for Simulation, Analysis and 3 Credits **CCIS 253** Visualization An introduction to programming concepts for biology, chemistry, mathematics, physics and social science majors. The course introduces the scientific programming and analysis tool Matlab. Co-requisite: 253L. Prerequisites: CMAT 111 Scientific Computing for Simulation, Analysis and CCIS 253L 1 Credit **Visualization Laboratory** A hands-on guided experience in developing Matlab programs. (Must be taken while completing CCIS 253) Co-requisite: CCIS 253. Storyboard Programming for Animation and **CCIS 300** 3 Credits **Interactive Media**

Introduction to storyboarding and the planning processes of visual storytelling. Translation of concepts such as shot types, continuity, pacing, transitions and sequencing into a visual narrative. Using visual programming to animate storyboards. Use of interactive media.

CCIS 301	Advanced Programming	3 Credits
Continuation of the CIS223 Data Structur complex data structures. Prerequisites: (res course with a focus on applied CS concepts in application developm CCIS 121, CCIS 223, and CCIS 227.	nent, problem solving using
CCIS 315	Computer Logic Design	3 Credits
Provides and introduction to logic design	n. Topics covered include combinational and sequential circuits.	
CCIS 321	Software Engineering	3 Credits
Introductory study of large software maintenance. Prerequisites: CCIS 22	development issues, including requirements analysis, specifica 3	ation, design, testing and
CCIS 329	Internet Applications	3 Credits
	ons, often called Rich Internet Applications (RIA). Topics include serve Common Gateway Interface (CGI), server pages, database access, and	
CCIS 400	Fundamentals of Geographic Information Systems	3 Credits
Emphasis will be placed on concepts and	the theoretical concepts and practical experience to the field of Geograp spatial reasoning of the analysis techniques. GIS functionality, method in numerous disciplines will be covered in this course.	
CCIS 408	Introduction to VLSI Design	3 Credits
Study of signals in a digital represer transformations, and filters. <i>Co-requisite</i>	ntation and the processing methods of these signals. Topics inc e: CCIS 408L. Prerequisite : CCIS 372.	lude time-series analysis,
CCIS 408L	VLSI Design Laboratory	1 Credit
Hands-on projects in VLSI Design, includ	ing programming of FPGAs. <i>Co-requisite</i> : CCIS 408.	
CCIS 409	Introduction to Digital Signal Processing	3 Credits
Study of signals in a digital represer transformations, and filters. <i>Co-requisite</i>	ntation and the processing methods of these signals. Topics inc. e.: CCIS 409L.	lude time-series analysis,
CCIS 409L	Digital Signal Processing Laboratory	1 Credit
Hands-on projects in Digital Signal Proce	essing. Co-requisite : CCIS 409.	
CCIS 410	Introduction to Embedded Systems	3 Credits
Embedded systems are computers that input/output devices and development k	are often specialized for a single task. Topics include system architists. <i>Co-requisite</i> : CCIS 410L.	itecture, real-time system,
CCIS 410L	Embedded Systems Laboratory	1 Credit
Hands on projects in Embedded Systems	Co-requisite: CCIS 410.	
CCIS 412	Introduction to Image Processing and Computer Vision	3 Credits
	and feature extraction. Topics include pixel transformation, filters, equisite: CCIS 412L. <i>Prerequisite</i> : CCIS 372.	dge-detection, color spaces
CCIS 412L	Introduction to Image Processing and Computer Vision Laboratory	1 Credit
1 7 0 0	nd Computer Vision. <i>Co-requisite</i> : CCIS 412.	Т
CCIS 413	Introduction to Robotics	3 Credits
413L. <i>Prerequisite</i> : CCIS 223.	n recognition, spatial recognition, fast color tracking, and stereoscopio	1
CCIS 416	Introduction to High Performance Computing	3 Credits
related to accessing high performance	high performance computing as it relates to scientific computing. The computing resources, developing applications for those resources, ons are designed to provide knowledge and experiences to students the computing.	and executing developed
CCIS 422	Introduction to Computer Forensics	3 Credits
tools to recover deleted or distorted data	o pertain legal evidence found in computer files and storage media. To a, encryption, intrusion detection, and analysis of log files. <i>Prerequisite</i> .	: CCIS 223.
CCIS 423	Introduction to Wireless and Wired Networks	3 Credits
Study of design and analysis techniques medium access control, protocol models	for wireless and wired computer networks. Topics include network de like OSI, routing, and QoS.	evice hardware, topologies,
CCIS 429	Introduction to Digital Multi-Media	3 Credits

	reate and distribute digital photographs, video and sound. Topics in	
	ndwidth requirements, perceived quality, watermarking, digital sign	
CCIS 431	Cybersecurity I	3 Credits
	f the concepts relevant to information security. Concepts include dection of resources, trusted systems, and cryptography. <i>Prerequisite</i>	
CCIS 432	Cybersecurity II	3 Credits
Study of electronic commerce app. metrics, and policies. <i>Prerequisite</i>	lications. Topics include technical infrastructure, business st e: CCIS 431.	rategies, performance
CCIS 433	Principles of Computer Game Design	3 Credits
	als of video and computer game design. Students learn the practical learning the conceptual aspects of games.	aspects of game
CCIS 471	Computer Algorithms	3 Credits
Introductory study of algorithm design traversals and complexity issues. Prere	n, using appropriate data structures. Topics include algorithms for s equisite: CCIS 121 and CCIS 223.	orting, searching and graph
CCIS 472	Computer Architecture	3 Credits
Study of logical organization of compu CCIS 121, CCIS 223, and CCIS 227.	ter hardware and functional components using a simulation progra	mming language. Prerequisites
CCIS 473	Operating Systems	3 Credits
Study of basic operating systems conce 121 and CCIS 223.	epts, including multiprogramming, resource management and imple	
CCIS 474	Database Systems	3 Credits
Study of basic concepts of databases, in	ncluding data models, query processing and other topics of interest.	Prerequisite: CCIS 223.
CCIS 475	Artificial Intelligence	3 Credits
Introductory study of intelligent probleorganization. Prerequisite: CCIS 223 and an article of the control of t	em solving and search algorithms, inference systems, machine intelled CCIS 227.	ligence and knowledge
CCIS 476	Programming Languages and Compilers	3 Credits
An overview of syntactic and semantic of procedural languages. <i>Prerequisite</i>	aspects of programming languages, including basic concepts of par CCIS 223.	sing, translation, and execution
CCIS 480	Current Topics in Computer Science	3 Credits
This course covers new developments	in computer science. <i>Prerequisite</i> : Instructor permission required.	<u> </u>
CCIS 490	Practical Training	3 Credits
course, a student must complete at the performance rating from the employer	It laboratories via internship and cooperative education programs. equivalent of 6 months of full-time employment with the same emp , and write a paper describing in reasonable detail the work environge and experience gained from the employment. Prerequisite : Cons	ployer, receive a satisfactory nment, activities,
CCIS 493	Senior Design Project	3 Credits
	nating in a design project acceptable to the department. This course projects for the students. Prerequisite : CCIS 223, 321, 473, 474. Con	
CCOL 104H	The American Black Woman	2 Credits
knowledge and understanding of how	nture of life of black women in North America from 1619 to the prese black women's lives have been shaped by American systems.	
CCOL 106H	Themes in Fiction of the American Diaspora	2 Credits
colloquium, the Americas where the At		
CCOL 112H	Moral Problems in Contemporary Society	2 Credits
Consideration of current issues in biole	ogy and medicine which require ethical decisions.	
CCOL 200H	College Campus Culture	2 Credits
Exploration of the social, emotional an	d intellectual behaviors which are transmitted and formed through	out college matriculation.
CCOL 205H	Southern Writers	2 Credits
	representative works by and about Southern writers, with conce	ntration on nineteenth- and
twentieth-century works.		2 Credits

Opportunity to explore leadership qualities and styles. **CCOL 402H Black Self-Concepts** 2 Credits The aspirations, accomplishments, and progress of African Americans against the historical background of W.E.B. DuBois' Souls of Black Folk. **CECE 200 Introduction to Early Childhood Education** 3 Credits This course is designed to provide overview of early childhood education (preschool thru grade 5) as professional field of study and practice. Emphasis is on the role and function of early childhood education (ECE) programs in providing a learning foundation for urban, minority children. Course contents include an introduction to historical and contemporary issues, pioneers, and approaches in ECE. Prerequisite: Admission to Teacher Education or Educational Studies. **CECE 206** Foundations of Mathematics for Teachers 3 Credits This course extends candidates' content proficiency, conceptual understanding of numbers, numeration systems and fundamental concepts of algebra, geometry, probability, statistics, and measurement. The presentation of these principles and aspects of mathematics will be interpreted through the National Council of Teachers of Mathematics (NCTM) standards in particular standards on problem solving, reasoning, technology and making connections to the real world. Prerequisite: Admission to Teacher Education or Educational Studies. **CECE 212 Pre-Professional Laboratory** 1 Credit This entry-level practicum introduces potential teacher education candidates seeking admission to Early Childhood programs to the varied educational institutions that support the schooling process (e.g., museums, science centers, and other community resources). Potential candidates can earn service learning hours as they complete course content. Co-requisites: CEDC 262 and CECE 200. **CECE 213** Practicum I (Observing and Exploring) 2 Credits This entry-level practicum is designed for potential teacher education candidates. The practicum provides experiences that introduce potential candidates to teachers, learners, and the school community through processes of observing and exploring. Course assignments engage potential candidates in activities that strengthen skills in writing and critical observations. Prerequisite: Admission to Teacher Education. **CECE 300** Literacy in Early Childhood 6 Credits This course provides insights into the nature of the reading process and emergence of reading readiness skills will be emphasized. Candidates learn to provide a developmentally appropriate environment for reading to begin. The course focuses on the strategies needed to teach reading to the preschool, kindergarten, first-grade, and second-grade student. A field component provides practical experience. **Prerequisite**: Admission to Teacher Education or Educational Studies. **Child Development** 3 Credits This course engages candidates in an exploration of how children learn and develop, of myriad influences on children's development, and theories of child development. Facilitates candidates' development of strategies which promote optimal learner growth. Focuses special attention on cultural elements which influence the development of children in urban schools and communities. Guides candidates to an appreciation of the interdependence of cognitive, physical, and affective domains in the overall development of children. Prerequisites: CCPS 301, Educational Psychology, and Admission to Teacher Education or Educational Studies. **Practicum II** 2 Credits This practicum promotes the development of teacher education candidates' knowledge and understanding of the schooling process and its influences and facilitates candidates' awareness of the foundational underpinnings that shape contemporary educational practices. Prerequisite: Admission to Teacher Education. **CECE 314 Creative Development** 4 Credits This course offers guided observations of and experiences in application of instructional methodologies. Emphasis on interdisciplinary methodology, culturally appropriate pedagogy, integration of creative activities and on assessment. Designed to offer candidates the opportunity to gain competency in the use of a variety of media and explore potentials in creative arts. Prerequisite: Admission to Educational Studies. **CECE 316** 3 Credits **Practicum III** This practicum focuses on the instructional process and skills, resources, knowledge and interactions that ensure student learning. Experiences are provided which promote candidates' awareness of the importance of developing and nurturing family relationships to support the teaching/learning process. Candidates are guided to use their specific content knowledge to establish teaching/learning objectives. Prerequisite: Admission to Teacher Education. **CECE 404 Early Childhood Curriculum and Methods** 3 Credits This course engages in the study of origins, philosophy, organization, and implementation of curriculum models for early childhood education. Candidates also examine teaching methods and materials used during the early years, and principles and practices employed in early learning programs. Prerequisite: Admission to Teacher Education or Educational Studies. **CECE 405 Preschool Program Development** 3 Credits

This course examines the organizational structure, aims, purposes, and variety of preschool educational programs, including teacher characteristics, classroom organization, and program scheduling. The laboratory component allows students to observe and participate in

Methods of Teaching Reading and Writing

3 Credits

a preschool setting. Prerequisite: Admission to Educational Studies.

CECE 415

This course examines knowledge, skills, and attitudes necessary for effective organization and implementation of the reading program. Candidates learn to promote reading as an informative, rewarding, and essential component of education. The course includes a review of widely used methods in teaching reading and a laboratory experience in which candidates practice instructional strategies. *Prerequisite*: Admission to Teacher Education.

CECE 426 Integrated Teaching of Elementary Mathematics and Science 3 Credits

This course uses readings, case studies, instructional technology, and a school-based practicum to help pre-service teachers develop the scientific and mathematical knowledge, skills, and dispositions needed to teach science and mathematics in grades P-5. It examines research and theory in the field of math and science instruction and assessment and emphasizes culturally appropriate methodology in the integration of math and science. *Prerequisite*: Admission to Teacher Education.

CECE 444 Pre-Service Teaching 13 Credits

This course provides practical experiences with children, preschool to grade five, in approved educational settings and under the supervision of state-certified teachers. Through daily work and other interactions, the candidate integrates and utilizes the knowledge and skills gained in major courses. CEDC 444 is a full-time field experience lasting sixteen weeks. The pre-service teacher is required to attend the campus-based reflective seminars once per week and other teaching-related workshops and activities. *Prerequisites*: Completion of all core and major courses with required grades; passing scores on the GACE Basic Skills and relevant content examinations; appropriate recommendations; acceptable interview.

CECE 452 Integrated Teaching of Social Studies and Language Arts 3 Credits

This course will examine, in depth, the methods used in teaching the integration of Social Studies into the Language Arts in the elementary school from an interdisciplinary, multicultural approach. Instruction in the elements of social studies and language arts, with emphasis on knowledge required for the teaching of content skills and methods in the language arts and social studies programs addressing national and state standards. *Prerequisite*: Admission to Teacher Education.

CECE 498 Developing Family and Community Relationships 3 Credits

This course engages candidates in the study of current and historical theory and practices in parent education and the impact of connecting with the community. The course reviews parents' and other adults' involvement with schools and covers the role of parent education in the school's curriculum and the theoretical and practical aspects of parental involvement in the educational setting. The course takes an in-depth view of the role that the community plays in shaping the development of children and youth. *Prerequisite*: Admission to Teacher Education.

CECO 107 Introduction to Economics 3 Credits

A one-semester survey course designed to introduce students to the fundamental principles and concepts of economics. Topics covered include demand and supply analysis, the function of the markets in the allocation of resources, measuring economic activities in the private as well as in the public sectors, problems such as unemployment, inflation, income distribution and poverty, and domestic and international financial institutions and the working of global market systems.

CECO 250 Principles of Economics 3 Credits

A one-semester introductory course in economics for students in departments which require only one semester of economics. The course focuses on both macro- and microeconomic issues that impact the decision making within the U.S. economy.

CECO 250L/251L/252L Economics Laboratory 0 Credit

Laboratory courses are taken along with CECO 250, CECO 251, and CECO 252, respectively.

CECO 251 Principles of Macroeconomics 3 Credits

Principles of Macroeconomics, is one of the two introductory courses that acquaint students with the major sub-fields of economics. The two courses are designed to aid students in understanding the functioning of the U.S. economic system and its relation to the global economy. Economics 251 concentrates on macroeconomic phenomena in terms of key aggregates such as GNP or GDP, unemployment, inflation, poverty, saving, investment, income distribution and budget and trade deficits. Students will also be introduced to the tools available to the government, in the guise of fiscal and monetary policies, to influence the behavior patterns of the components of the macroeconomic system. *Prerequisites*: Minimum grades of "C" in CMAT 209 and CMAT 210.

CECO 252 Principles of Microeconomics 3 Credits

A one-semester comprehensive study of the principles which govern production, consumption, and distribution as well as the major institutions in the United States economic system. *Prerequisites*: Minimum grades of "C" in **CMAT 209 and CMAT 210**.

CECO 302 Government and Business 3 Credits

The nature and development of government control and regulation of enterprises is the focus of this course. It examines antitrust laws and their interpretation and enforcement, selected Supreme Court antitrust decisions, and current problems of government relations in various industries.

CECO 304H Contemporary Economic Problems 3 Credits

A survey and application of economic theories, principles, and concepts. Emphasis is on identification of major issues affecting the American political economy, particularly those having significance for the economic well-being of black and other Third-World people. Satisfies General Education Core requirement for social science.

CECO 308 Mathematical Economics 3 Credits

Applications to elementary mathematics to economics are covered. This course includes studies in calculus, matrices, and linear difference equations. Mathematical problems used in this course come from the field of economics. *Prerequisites*: Minimum grades of "C" in CMAT 111 and CMAT 112.

CECO 309 Introduction to Econometrics 3 Credits

The use of mathematical and statistical models in the study of economics relationships is covered in this course. Methods introduced include single equation least squares, analysis of variance, and multi-equation models (offered within the Atlanta University Center). *Prerequisites*: Minimum grades of "C" in CBUS 313 and CBUS 314.

CECO 315 Intermediate Macroeconomic Analysis 3 Credits

This course examines general theories of aggregate economic analysis. It traces the development and refinement of selected theories through the classical, Marxism, neoclassical, and Keynesian schools. It enables students to analyze unemployment, inflation, business cycles, and other national economic occurrences. *Prerequisites*: Minimum grade of "C" in in CECO 251.

CECO 316 Intermediate Microeconomic Analysis 3 Credits

The theory of the firm, the household, and the market with applications to individual decision-making units are covered in this course. **Prerequisites**: Minimum grade of "C" in CECO 252.

CECO 324 Economic Development 3 Credits

A study of the characteristics and problems of developed and developing economies. Covers the theory of economic development, stages of growth and development, and data analysis to evaluate development performance. *Prerequisites*: Minimum grades of "C" in CECO 251 and CECO 252.

CECO 325 Comparative Economic Systems 3 Credits

A study of the economic models of comparative systems. The course includes an analysis of the effectiveness of performance of alternative economic systems in terms of growth patterns and fidelity to ideology. **Prerequisites**: Minimum grades of "C" in CECO 251 and CECO 252.

ECO 335 International Trade 3 Credits

Application of microeconomic policy to commercial relations between nations. Among the topics covered are the theory of comparative advantage and alternative commercial policies. *Prerequisites*: Minimum grades of "C" in CECO 251 and CECO 252.

CECO 343 Public Finance 3 Credits

General survey of government finance at the federal, state, and local levels. Topics include government expenditures, principles of taxation, intergovernmental fiscal relations, debt management, public borrowing, and fiscal policies for economic stabilization (offered within the Atlanta University Center). *Prerequisites*: CECO 315 and CECO 316.

CECO 357 Economic History of the United States 3 Credits

Economic perspective of regions and historical periods in the United States. Topics include agricultural and industrial life in the colonies, the economic effect of slavery, post-Civil War agrarian revolution, development of manufacturing and transportation, westward movement, business concentration, the Depression, the World Wars, and the recent trends.

CECO 362 Money and Banking 3 Credits

Examines the alternative theories of money. Explores the relationship of money to prices, the role of financial intermediaries, international monetary problems, and the history of monetary policy in the United States. *Prerequisites*: Minimum grades of "C" in CECO 251 and CECO 252.

CECO 365 Economics of Labor 3 Credits

Consideration of labor as an economic factor. Covers wages, labor force participation, employment and unemployment, the growth of labor organizations, labor market discrimination and public policies (offered within the Atlanta University Center). *Prerequisites*: Minimum grades of "C" in CECO 251 and CECO 252.

CECO 369 Urban Economics 3 Credits

Examination of three principal themes in the economics of urban areas: (1) the economics of the location decisions and the influence of these decisions on urban growth and the real estate market; (2) evaluation of transportation and other services; and (3) economic development of ghetto neighborhoods. *Prerequisites*: Minimum grades of "C" in CECO 251 and CECO 252.

CECO 372 History of Economic Doctrines 3 Credits

Survey of economic thought from ancient times to the present. Prerequisites: Minimum grades of "C" in CECO 251 and CECO 252.

CECO 470 Research Methodology/Senior Thesis 3 Credits

Designed to explain the methods of conducting social science research, including defining the problem to be studied, establishing hypotheses, and utilizing techniques of empirical analysis. All economics majors are required to write a Senior Thesis on an approved topic. *Prerequisite*: Approval of the department chair.

CECO 490 Independent Study 0-3 Credits

Projects designed by the student and a faculty member, who agrees to work with the student, to meet specific and individual needs. May involve direct reading in specific subject area, a research project, teaching economics in high school or a combination of any two. May be repeated for additional credits. *Prerequisite*: Approval of the department chair.

CECO 495 Cooperative Education 0-3 Credits

Intensive practical experience in a profit or nonprofit public or private organization. Students are expected to acquire knowledge, understanding, and the skills pertinent to the select organization. *Prerequisite*: Approval of the department chair.

CEDC 199 Pre-Professional Seminar 3 Credits This course provides intensive instruction in the concepts, strategies, and content covered on the GACE Basic Skills assessments. The strategies will include both generic and subject matter test-taking strategies. **CEDC 262** 3 Credits **Educational Technology** This course engages candidates with a variety of computer applications and technological tools used in education. Candidates have handson training with applications including word processing, Internet, spreadsheet, database, presentation, and digital technology tools. Significant focus is placed on the development of websites and electronic portfolios. This course is designed to satisfy the Georgia Teacher Certification Computer Skills Competency Requirement. **CEDC 303 Human Relations** 3 Credits This course provides opportunity for students to enhance their skills in interpersonal relationships. The course uses role-playing and other drama techniques to examine the quality of human relations between various groups. Prerequisite: Admission to Educational Studies. **Presentation Skills** This course provides simulated situations in which students practice the skills needed for effective oral presentations in their major areas. Through closed-circuit video presentations, students examine situations encountered by teachers, school administrators, sales representative managers, supervisors, and group leaders. Prerequisite: Admission to Educational Studies. **CEDC 360 Educational Measurement** 3 Credits This course engages candidates in the study of statistical concepts and terminology for education. Students gain knowledge of widely used standardized education tests, such as CAT and ITBS. The course explores test construction, selection, administration, and interpretation of test results to pupils and parents. This course is designed to provide experiences in test taking, analysis, construction, and interpretation of results. Prerequisite: Admission to Teacher Education. **CEDC 408** Multicultural and Global Education 3 Credits This course introduces teacher education candidates to concepts, principles, practices, and implications of multicultural and global education. Major attention is given to the social justice dimension of multicultural education and to candidates' skill in developing lessons which achieve social justice objectives in urban schools and communities. Prerequisite: Admission to Teacher Education or Educational Studies. **CEDC 492 Cooperative Education Experience** 9-12 Credits This course engages Educational Studies candidates spend a full semester (at least 12 weeks) working in an education related agency appropriate to their concentration or career goal. Experiences are supervised and monitored by a University professor and an onsite supervisor. Experiences are accompanied by a weekly seminar and require that candidates submit evaluations and reports that may include action research. Prerequisites: Admission to Educational Studies and acceptable recommendations and interviews (course is completed during the last semester). **CEDC 499 Independent Study** This course provides for the identification and investigation of a particular topic, issue, or problem in the field of education. Under the supervision of a major area professor, students conduct in-depth studies of specific problems and produce written accounts of their studies. Varying credit hours require specific activities as follows: one credit hour requires students to attend colloquia; two credit hours require attendance at symposia; three credit hours may include attendance at four seminars. Prerequisites: Admission to Teacher Education or Educational Studies, approval of the supervising professor, and minimum 2.5 GPA **CEDF 211 Foundations of Education** 3 Credits This course examines an introduction to the profession of teaching from an urban context. It examines the philosophical, historical, and sociological roots of basic questions and possible solutions in the field of American education and, specifically, in urban communities. Must be admitted to Teacher Education or Educational Studies **CEDS 425 Introduction to Exceptional Education** 3 Credits This course is designed to introduce students to the characteristics and education of individuals with disabilities. Must be admitted to Teacher Education or Educational Studies **CEGR 101/101L Introduction to Engineering** 3 Credits Introduction to the engineering profession and various branches of engineering utilizing audio-visual material, lectures by visiting professionals and trips to plants and factories, emphasis on professionalism and ethics, engineering solutions, representation of technical information, engineering estimations and approximations, dimensions, units and conversions with introduction to statistics, mechanics, electrical theory and engineering economics. Prerequisite: CMAT 105. **CEGR 102** Introduction to Engineering Design 2 Credits Introduction to engineering design process and design concepts; applications to design problems in the various branches of engineering; practical design assignments. Prerequisite: CMAT 105 **CEGR 110/110L Engineering Computer Graphics** 3 Credits Introduction to engineering graphics and visual communication including freehand sketching, engineering design processes, 2D/3D and solid CAD models, development and interpretation of drawings, projection standards and specifications for product realization. Prerequisite: CMAT 105.

Electrical Circuit Analysis

3 Credits

CEGR 201/201L

This course is designed to enable students to analyze basic circuits and to understand more advanced circuits that have circuit elements such as resistors, capacitors, inductors, voltage and current sources (using Kirchhoff's laws, mesh and nodal analysis, network theorems to DC and AC circuits and also by computer simulation using PSPICE software). *Prerequisites*: CMAT 112, CPHY 122.

CEGR 211 Engineering Statics 3 Credits

Study of the elements of statics in two and three dimensions using vector algebra, laws of equilibrium applied to particles, rigid bodies and structures, friction, centroids. *Prerequisites*: CMAT 112, CPHY 121.

EGGR 311 Engineering Dynamics 3 Credits

Kinematics of rectilinear and curvilinear motion of particles, kinematics of rigid bodies in plane motion, kinetics (work and energy relations, impulse and momentum principles) of particles, systems of particles, and rigid bodies in plane motion. *Prerequisite*: CEGR 211.

CEGR 314 Matlab/Labview for Engineers 3 Credits

Application of Matlab/Labview techniques to various engineering problems including numerical methods for solving nonlinear problems. **Prerequisites**: CMAT 112, CMAT 212.

CENG 105 College Composition I 3 Credits

A one-semester course emphasizing development of college-level writing skills. In CENG 105, students write multi-paragraph essays, learning the importance of thesis, topic sentence and paragraph development, along with how purpose and audience control the focus of the idea. During CENG 106, students continue to work on multi-paragraph themes, including the persuasive essay and the research paper. **Prerequisite**: A minimum grade of "C" is required.

CENG 105H College Composition I 3 Credits ea.

Examine ideas and systems of traditional and contemporary writers. Focus on basic research techniques. Satisfies General Education Core requirement for College Composition.

CENG 106 | College Composition II | 3 Credits

A one-semester course emphasizing development of college-level writing skills. In CENG 105, students write multi-paragraph essays, learning the importance of thesis, topic sentence and paragraph development, along with how purpose and audience control the focus of the idea. During CENG 106, students continue to work on multi-paragraph themes, including the persuasive essay and the research paper. A minimum grade of "C" is required for each course. *Prerequisite*: CENG 105 with a minimum final grade of "C". A writing proficiency examination is administered as a requirement for exiting CENG 106.

CENG 106H College Composition II 3 Credits

Examine the ideas and systems of traditional and contemporary writers. Focuses on the development of a critical research project. Includes class discussion, debate, and individual and group projects designed to develop critical faculties. Satisfies General Education Core requirement for College Composition.

CENG 201 Introduction to World Literature I 3 Credits

Offered each semester for English majors. Selected world masterpieces, with emphasis on Western civilization and historical, literary, and philosophical antecedents of twentieth-century United States culture. Introduces concepts and vocabulary required for reading, analyzing, and interpreting literature. CENG 201 explores literature from the beginnings to the Renaissance. *Prerequisite*: CENG 106 with a minimum final grade of "C".

CENG 201H Introduction to World Literature I 3 Credits ea.

Readings are drawn from the ancient, medieval, Renaissance, and modern worlds. Works from several cultures and periods suggest ways in which cultures and periods shape the self. Satisfies General Education Core requirement for literature.

CENG 202 Introduction to World Literature II 3 Credits

Offered each semester for English majors. Selected world masterpieces, with emphasis on Western civilization and historical, literary, and philosophical antecedents of twentieth-century United States culture. Introduces concepts and vocabulary required for reading, analyzing, and interpreting literature. CENG 202 explores literature from the Renaissance to the present. *Prerequisite*: CENG 106 with a minimum final grade of "C".

CENG 202H Introduction to World Literature II 3 Credits

This course is the second part to CENG 201H: readings are drawn from the ancient, medieval, Renaissance, and modern worlds. Works from several cultures and periods suggest ways in which cultures and periods shape the self. Satisfies General Education Core requirement for literature.

CENG 210 Literary Forms 3 Credits

Introduction to the techniques of reading literature and writing about literature and includes the study of genre, rhetorical and literary devices, literary research and documentation.

CENG 231 Sophomore Seminar 2 Credits

Opportunities for majors to acquire career preparation and additional academic enrichment.

CENG 311 Advanced Grammar and Composition 3 Credits

An advanced course in expository, descriptive, persuasive, and narrative writing, with emphasis on grammar, punctuation, and mechanics.

CENG 313 Survey of Major British Writers I 3 Credits ea.

A study of authors whose lives, writings, and philosophies represent major stages in the literature of Great Britain. CENG 313 covers early British literature through the Renaissance and includes writers such as Chaucer, Shakespeare, and Milton.

CENG 314	Survey of Major British Writers II	3 Credits	
A study of authors whose lives, writings Restoration to the present and includes	, and philosophies represent major stages in the literature of Great l writers from Dryden to Eliot.	Britain. CENG 314 covers the	
CENG 315	Survey of Major United States Writers I	3 Credits	
	n the United States from the eighteenth century to the present. CENG ying, Poe, and Hawthorne, as well as early Native American and Afric		
CENG 316	Survey of Major United States Writers II	3 Credits	
A chronological study of major writers in 1865 to the present, including Whitman,	the United States from the eighteenth century to the present. CENG 3 Frost, Wright, Faulkner, Brooks, and Morrison are included.	16 covers the literature from	
CENG 318	Colloquium	3 Credits	
An exploration of selected authors and li	terary works depending on the interests of faculty and students in th	ne department.	
CENG 320	Renaissance Literature	3 Credits	
A survey of major genres, authors, and so Spenser, Marlowe, Kyd, Bacon, Donne, an	ocial and philosophical changes in sixteenth-century England. Includ ad Johnson.	ed are writers such as Wyatt,	
CENG 321	The Romantic Period	3 Credits	
A study of general characteristics of the Keats along with lesser known Romantic	period and its intellectual and cultural focus. Blake, Wordsworth, C s are included.	oleridge, Byron, Shelley, and	
CENG 322	The Victorian Period	3 Credits	
A study of major essayists, novelists, play	ywrights, and poets from 1832 to 1901.		
CENG 331	Junior Seminar	2 Credits	
Opportunities for majors to acquire care	er preparation and additional academic enrichment.		
CENG 340	Introduction to Fiction Writing	3 Credits	
	This class introduces students to the writer's craft, with emphasis on the analytical study of fiction, narrative strategies, diction, tone, character, and conflict. (Offered every other fall semester)		
CENG 341	Introduction to Poetry Writing	3 Credits	
	reading, writing, analysis, and peer critiques. Students study differ oduce a number of original poems in this class. (Offered every other		
CENG 342	Introduction to Drama Writing	3 Credits	
to the playwright. Through the completi	ess of playwriting. The emphasis is on the exploration of a range of to on and discussion of a series of writing exercises the class will exar arse will craft at least one ten-minute play and one one-act play. (Offer	nine the various elements of	
CENG 343	Introduction to Creative Nonfiction Writing	3 Credits	
This course focuses on the study of the p a personal essay of their own. (Offered e	ersonal essay. Students will study and analyze the essays of professivery other fall semester)	onal writers as well as create	
CENG 350	Technical Writing	3 Credits	
An emphasis on oral and written skills reports, abstracts, letters, and illustratio	for technical communication. English 350 covers the basic forms of the control of	f technical writing, including	
CENG 357	Folk Literature	3 Credits	
	g folk literature and the comparison of various ethnic groups. Both es, fairy tales, superstitions, legends, and popular sayings.	oral and written literature is	
CENG 358	Southern Fiction and Folk Literature	3 Credits	
A study of representative works of Sou southerners. Emphasis is on creative wo	athern writers, with concentration on nineteenth- and twentieth-crks published after the Civil War.	entury works by and about	
CENG 397	Independent Study and Research	3 Credits	
	uided research on an author, era, or issue in literary studies. Depe reflect their particular interests. This course is a good choice for st		
CENG 409	Shakespeare	3 Credits	
A study of representative plays, including	g histories, tragedies, romances, and comedies.		
CENG 412	Fiction Writing Workshop	3 Credits	
Students produce three pieces of fiction least one piece of publishable fiction. (Of	for classmates to analyze in this advanced course. Emphasis in this fered every other spring semester)	class will be on producing at	
	Autobiography and Biography	3 Credits	

CENG 414	Drama Workshop	3 Credits
	vriting in which students will produce at least two plays and partic	
plays. (Offered every other spring seme		.pute in the unaryzing or studen
CENG 415	Creative Nonfiction Workshop	3 Credits
	nal essay. Students in this class produce at least three personal ess nasis in this class will be on producing at least one publishable es	
CENG 416	Editing and Publishing: The CAU Review	3 Credits
	and publishing as well as working with writers. Students will solicit, versity Center (AUC) in Clark Atlanta University's literary magazine	
CENG 417	Methods of Teaching English in Secondary Schools	3 Credits
A study of recent trends in methodolog for prospective English teachers.	y and materials used in the teaching of composition and literature. T	his course is designed especiall
CENG 418	History of the English Language	3 Credits
	e: the nature and function of language, and the historical changes in innings of the language to the modern period.	English phonology, morpholog
CENG 419	Linguistics	3 Credits
A survey of the matter and methods of grammar.	f modern linguistics, with units on the nature of language, linguist	ics, phonology, morphology an
CENG 420	Poetry Workshop	3 Credits
Students produce five poems for class publishable poem. (Offered every other	mates to analyze in this advanced course. Emphasis in this class w r spring semester)	vill be on producing at least on
CENG 431	Senior Seminar	2 Credits
Opportunities for majors to acquire can	reer preparation and additional academic enrichment.	
CENG 459	African-American Literature I	3 Credits
	ican literature, with emphasis on the historical evolution and treaurse covers colonial African-American literature to the Harlem Ren	
CENG 460	African-American Literature II	3 Credits
	can literature, with emphasis on the historical evolution and trea urse covers the period from the Harlem Renaissance to the present	
CENG 461	Modern Literature	3 Credits
	and twenty-first century writers. This course emphasizes reading ia, Russia, the United States, and the Caribbean.	gs and discussions of significar
CENG 463	Medieval English Literature	3 Credits
A study of representative works from t	he Old and Middle English periods with special emphasis on Beow	ulf and Chaucer.
CENG 468	Internship	3 Credits
	nglish majors to do supervised career-related internships on or of the Department of English prior to enrollment.	f campus. Students must discus
CFAS 201	Creative Fashion Presentation	3 Credits
Students learn about brand images for	es of fashion presentations through the examination of industry or r fashion magazines and apparel and the necessity of working on students interested in fields of brand identity, marketing, styling a	a collaborative team to solve
CFAS 210	Principles of Fashion Industry	3 Credits
	ndustry within the context of its dynamic global and domestic fashio e fashion industry while incorporating the principles of fashion des	
CFAS 220	History of Costume	3 Credits
	nncient Egyptian to 20th-century styles through a visual history of fuse and effect of costumes in each period.	fashion. Emphasis on culture, a
CFAS 230	Textiles	3 Credits
An introduction to textiles used in fash	ion and interiors industry. Study of natural and man-made fibers, y	arns, and weaves, fancy weave

use and care of textiles, design applications, and finishing and emphasis is placed on fabric performance and the customer's role in the utilization of fabrics.

CFAS 237 Fashion Illustration 3 Credits

Fundamentals of rendering to communicate fashion design ideas. Students learn to draw the male and female fashion figure. Students learn to utilize color, proportion, fabric and methods for making quick sketches to illustrate different styles. *Prerequisites*: CART 101, CART 102, and CART 201.

CFAS 240 Apparel Construction I 3 Credits

The course provides the student the opportunity to develop skills and techniques required for apparel construction through the introduction of basic sewing techniques, understanding construction terminology, selecting proper materials and techniques for a particular garment/apparel detail or project, applying design principles and operating sewing equipment.

CFAS 250 Visual Merchandising 3 Credits

The course examines the application of basic design principles in visual merchandising. Students learn the role that fixtures, presentation and retail patterns play in display, and also examine how to utilize visual merchandising concepts with creative design to potentially enhance store image and maximize sales. *Prerequisites*: CART 101 and CART 102.

CFAS 310 Flat Pattern 3 Credits

Fundamentals of basic principles of flat patternmaking are covered, including **slopers** for collars, sleeves, bodices, skirts, and pants. **Prerequisite**: CFAS 240 or permission of instructor.

CFAS 314 Promotion Planning Strategy 3 Credits

Comprehensive study integrating all phases of fashion marketing channels by analyzing sources and market trends with emphasis on the scope and importance of each phase and the necessity of identifying target markets and developing appropriate strategies. Students assist in the production of the annual fashion show event at the University. *Prerequisites*: CFAS 210 and CBUS 336.

CFAS 320 Draping 3 Credits

The course introduces the student to the study of patternmaking through draping techniques. Using the working sketch, a final fashion garment is constructed from a pattern developed through the draping process. *Prerequisite*: CFAS 310 or permission of instructor.

CFAS 325 Wardrobe Styling and Consulting 3 Credits

An interactive course that investigates the principles for conducting wardrobe assessments, clothing clusters, and matching wardrobe to various personality types that includes study of color, line, and visual principles in addition to analyzing the human figure and face. The course will cover hair, make-up and skin-care.

CFAS 340 Apparel Construction II 3 Credits

This course builds on the basic apparel construction techniques and skills from Apparel Construction I. The student is provided the opportunity to advance his knowledge and skills by constructing selected garments. Techniques for lining a garment are introduced. Design principles and basic commercial pattern manipulation is addressed. *Prerequisite*: CFAS 240 Apparel Construction I.

CFAS 350 Fashion Accessory Design 3 Credits

A capsulated overview of the field that identifies the industry's major components, products and processors, manufacturers and designers, retailers and promoters. Students have the opportunity to develop and design accessories such as hats, belts, jewelry and other textile products. *Prerequisites*: CFAS 210, CFAS 220, and CFAS 240.

CFAS 360 Fashion Apparel Computer Aided Design (CAD) 3 Credits

The course covers the utilization of computer aided design software for the fashion industry. Through basic design exercises, the student develops the skills and techniques to create fashion flats, illustrations, textile designs and merchandise presentations. *Prerequisites*: CART 101, CART 102 and CART 277.

CFAS 401 Retail Mathematics 3 Credits

Examination and analysis of the theory and practice of buying and selling apparel relative to a career in the buying arena. Introduction into developing and mastering mathematical techniques (gross margin, buying and selling methods, markup calculation, and merchandise planning. In addition, the course will cover operating expenses and how they affect gross margin. *Prerequisites*: CMAT 104, CFAS 314, and CFAS 440.

CFAS 402 Fashion Buying and Planning 3 Credits

A study of the principles of buying and planning merchandise by department for stores. This course is an examination and analysis of the theory and practice of buying (budgeting, marketing objectives, merchandise assortment planning, expense control, and inventory management) and selling (volume and profit) apparel. *Prerequisites*: CMAT 104, CFAS 314, and CFAS 440.

CFAS 410 Fashion Design Senior Collection 3 Credits

A comprehensive course that allows students to apply skills, creativity and execution in the development of a line of merchandise incorporating patternmaking, apparel construction and portfolio preparation by applying design skills. To process book and presentation boards. *Prerequisites*: CART 101, CART 102, CART 201, CFAS 240, CFAS 310.

CFAS 420 Fashion Show Production 3 Credits

Involves the production of a full-scale fashion show featuring student designs and methods of promotion. This course involves development of advanced planning required for a special event. Students receive committee assignments and assist in model training, merchandise selection, advertising and publicity of the event. Other topics include budgeting, floor plans, staging and designing flyers, and programs. Students plan lighting and sound, choreograph routines and participate in the production of a fashion show *Prerequisite*: Juniors and Seniors or permission of instructor.

CFAS 425

Case Studies in Fashion Marketing

3 Credits

Students are presented opportunities to analyze decision-making in arriving at independent solutions to typical marketing problems. This course examines the merchandising objectives of the fashion industry through the use of the case study method by examining actual cases. The presentations of actual cases are evaluated for weighing of factual data, disciplined thinking and rational conclusions.

CFAS 430 Trend Forecasting

3 Credits

The study of current fashion trends in the market that lead to the development of and planning merchandise lines. Learning to predict future trends through reporting strategies is a key component of the course by analyzing videos and fashion publications, researching websites to identify opportunities in the fashion business for growth and profit.

FAS 440 Retail Management

3 Credits

An exploration of the contemporary aspects of retailing, this course examines the functions of management, merchandising, globalization, multiculturalism, ethics, recycling, promotion, and customer service in brick-and-mortar retailing and off-site retailing. The field of retailing is examined within domestic and foreign markets thereby emphasizing the interrelationship of the major facets of the retail industry and its markets. This course focuses on the analytical skills and industry specifications required in evaluating a retail business. *Prerequisites*: CFAS 210, CFAS 220 and CFAS 250.

CFAS 450

Fashion Design Portfolio

3 Credits

Designing for different markets is integrated with fashion presentations, the components of design, fabric and end use. Students develop a portfolio for entry into the industry through the development of a small collection while learning advanced rendering techniques and presentation formats based on their specified career goal. *Prerequisites*: Senior status. This is the capstone course for the concentration in Fashion Design.

CFAS 480 Internship

3-18 Credits

The internship will allow students to participate in a supervised fashion industry work experience to increase professional skills by participating in an on the job training experience in specialty stores, department stores, design, advertising and other related occupations. Students can qualify for an internship after the freshman year and may register for 3-6 credit hours each semester. Internships can be taken up to three times and students can enroll in section 1-3. The internship is monitored by a faculty member. *Prerequisite*: Advance permission of department chair required.

CFAS 490

Fashion Merchandising Senior Seminar

3 Credits

Presents current practices, trends, and problems in the field. Students learn to analyze contemporary problems by using the case study method and by presenting a written and oral case analysis at the end of the course. This is the capstone course for the concentration in Fashion Merchandising.

CFAS 495 Independent Study

0-3 Credits

In consultation with a department faculty member, upper-division students may select an appropriate subject to explore. The independent study requires each participating student, working with a department faculty member, to develop a proposal outlining the scope of the project and the hourly credit to be assigned.

CFAS 499

Special Topics

3 Credits

Upper-division students explore topical issues in fashion design or merchandising.

CFLF 101

Elementary French I

3 Credits

Students acquire a basic level of communication in French and a familiarity with a variety of Francophone cultures through the utilization of the language in context. The course includes a variety of media, including audio, video and the Internet to complement the textbook. Classes meet three (3) lecture hours per week.

CFLF 102

Elementary French II

3 Credits

Students acquire a basic level of communication in French and a familiarity with a variety of Francophone cultures through the utilization of the language in context. The course includes a variety of media, including audio, video and the Internet to complement the textbook. Classes meet three (3) lecture hours per week. *Prerequisite*: CFLF 101.

CFLF 201

Intermediate French I

3 Credits

Students build on the knowledge and skills acquired in elementary French, with emphasis placed on communication proficiency and the forging of a strong linguistic base. In addition to the variety of media utilized in elementary French, significantly more authentic cultural artifacts (literary texts, newspaper articles, and films) are introduced throughout the course. Classes meet three (3) lecture hours per week. *Prerequisite*: CFLF 102.

CFLF 202

Intermediate French II

3 Credits

Students build on the knowledge and skills acquired in elementary French, with emphasis placed on communication proficiency and the forging of a strong linguistic base. In addition to the variety of media utilized in elementary French, significantly more authentic cultural artifacts (literary texts, newspaper articles, and films) are introduced throughout the course. Classes meet three (3) lecture hours per week. *Prerequisite*: CFLF 201.

CFLF 307

Business French I

3 Credits

Students are introduced to business practices in France and in Francophone countries. This course includes business vocabulary, government requirements for business, letter writing, transportation, insurance, accounting, and labor relations. It also seeks to expand on students' communicative and productive skills acquired in CFLF 201 and 202, Intermediate French I and II. This Course is conducted entirely in French. One (1) laboratory hour required per week. *Prerequisite*: CFLF 202.

CFLF 308 Business French II 3 Credits Students are introduced to business practices in France and in Francophone countries. This course includes business vocabulary, government requirements for business, letter writing, transportation, insurance, accounting, and labor relations. It also seeks to expand on students' communicative and productive skills acquired in CFLF 201 and 202, Intermediate French I and II. This course is conducted entirely in French. One (1) laboratory hour required per week. Prerequisite: CFLF 202. **CFLF 311** Survey of French Literature I 3 Credits This course is a cursory treatment of the essential works of French literature in prose, poetry, theatre and philosophical thought. Particular emphasis is placed upon the literary movements from the Middle Ages to the present, which had a social as well as political impact on France and the rest of the world. One (1) laboratory hour required per week. Prerequisite: CFLF 202. **CFLF 312** Survey of French Literature II 3 Credits The course is a cursory treatment of the essential works of French literature in prose, poetry, theatre and philosophical thought. Particular emphasis is placed upon the literary movements from the Middle Ages to the present, which had a social as well as political impact on France and the rest of the world. One (1) laboratory hour required per week. *Prerequisite*: CFLF 202. **CFLF 331** French Pronunciation and Phonetics 3 Credits The course treats the proper pronunciation of French and the perfecting of a near-native French diction through the aid of phonetic transcription and authentic French videos and audio texts. One (1) laboratory hour required per week. Prerequisite: CFLF 202. **CFLF 332** French Conversation 3 Credits The course stresses improving listening comprehension and oral expression by forcing the student to enhance his/her vocabulary through copious readings, viewing videos and discussing cultural topics. Emphasis will also be placed on writing. One (1) laboratory hour required per week. Prerequisite: CFLF 202. **CFLF 341** Advanced French Grammar and Composition I 3 Credits The course enhances students' proficiency in spoken and written French and examines the most difficult idiomatic and literary expressions of the French language. Written and oral exercises include themes, translations, reports on assigned subjects, and compositions. One (1) laboratory hour required per week. Prerequisites: CFLF 202 and CFLF 332. **CFLF 342 Advanced French Grammar and Composition II** 3 Credits The course enhances students' proficiency in spoken and written French and examines the most difficult idiomatic and literary expressions of the French language. Written and oral exercises include themes, translations, reports on assigned subjects, and compositions. One (1) laboratory hour required per week. Prerequisites: CFLF 202 and CFLF 332. **CFLF 355 Intensive Reading in French Literature I** 3 Credits This course teaches techniques in literary analysis of various genres of French literature. Works of the twentieth century will be the primary focus of the course. Students are required to have a general mastery of the French language and culture. This course is recommended for students who plan to do graduate work in French. One (1) laboratory hour required per week. Prerequisite: CFLF 341 or CFLF 342. **CFLF 356 Intensive Reading in French Literature II** 3 Credits This course teaches techniques in literary analysis of various genres of French literature. Works of the twentieth century will be the primary focus of the course. Students are required to have a general mastery of the French language and culture. This course is recommended for students who plan to do graduate work in French. One (1) laboratory hour required per week. Prerequisite: CFLF 341 or CFLF 342. **CFLF 419** 3 Credits **French Linguistics** The course introduces students to the scientific study of language focusing on the analysis and description of language. Topics include language acquisition, writing systems, sound systems, meaning, and language change in society. One (1) laboratory hour required per week. Prerequisite: CFLF 341 or CFLF 342. **CFLF 431 Civilization of Francophone Africa** 3 Credits The course treats the history of the French-speaking peoples of Africa from the colonial period until the present. It will explore the geographical, political and social issues facing black Africa, even through the transitory postcolonial period, in preparation for in-depth study of the literature and cultures. One (1) laboratory hour required per week. Prerequisite: CFLF 332 or CFLF 341. (Recommended for majors and those students interested in studying abroad in Francophone, Africa). **CFLF 434 Afro-French Novel** 3 Credits This course will trace the evolution of the African and Caribbean novel of French expression from its inception to the present. It will also treat other outside literary influences, such as the Harlem Renaissance, surrealism and the Negritude movement, which significantly impacted the development of this dynamic literary genre. One (1) laboratory hour required per week. Prerequisite: CFLF 341 or approval of the instructor. (Recommended for students interested in studying abroad in Francophone, Africa).

CFLF 440 Directed Study 3 Credits

The course is designed for students majoring in French to do more in-depth study and investigation of special areas of interest and to

The course is designed for students majoring in French to do more in-depth study and investigation of special areas of interest and to improve their language proficiency. Students work under the close supervision of a professor who will prescribe a plan-of-study which must be approved in advance by the department chair. Students must be able to work independently on the Internet. One (1) laboratory hour required per week. *Prerequisite*: Successful completion of all required 300 level courses.

CFLF 447 French Civilization I 3 Credits

The course treats the history of France from its origin to the present. It delves into the social and political institutions and explores their impact on contemporary French society. It will also provide a cursory view of artistic—architectural, musical and literary—as well as philosophical movements throughout the ages. One (1) laboratory hour required per week. *Prerequisites*: CFLF 311 and CFLF 312.

CFLF 448 French Civilization II 3 Credits

The course treats the history of France from its origin to the present. It delves into the social and political institutions and explores their impact on contemporary French society. It will also provide a cursory view of artistic—architectural, musical and literary—as well as philosophical movements throughout the ages. One (1) laboratory hour required per week. *Prerequisites*: CFLF 311 and CFLF 312.

CFLF 451 Composition and Translation 3 Credits

The course treats advanced issues in French grammar and syntax, written exercises, and free composition. It features instruction in writing different genres and in modifying writing styles to accommodate specific audiences and techniques for promoting cultural and global awareness. The course includes instruction in stylistic features of writing that distinguish French from English. This course is conducted entirely in French. One (1) laboratory hour required per week. *Prerequisite*: CFLF 332 or CFLF 341.

CFLF 452 Explication de Texto 3 Credits

This is an in-depth course in literary analysis that aims to prepare students for close textual reading and writing. It treats detailed critical analysis of selected passages with references to biographical elements, sources of origins, literary meaning, authenticity, and aesthetic qualities. Students produce oral and written reports in French. The course is conducted entirely in French. One (1) laboratory hour required per week. *Prerequisite*: CFLF 341 or CFLF 355.

CFLF 453 French Literature 3 Credits

The course is a study of the origins, development, and triumph of the Romantic Movement in France via the analysis of literary, historical, and critical texts. In particular, it examines the literary theories and manifestos, which influenced the literary production of this period and the manner in which such texts reveal the interaction between artistic expression and socio-political reality. By looking at more contemporary versions of these revolutionary modes of expression – in popular as well as "high" art – The course assesses the legacy of this important movement. One (1) laboratory hour required per week. *Prerequisites*: CFLF 447 and CFLF 448.

CFLF 454 French Prose 3 Credits

The course studies the progressive dominance of the novel as a literary genre in the modern period. Special attention is given to the influence of science – which begins to acquire unprecedented authority at this point in history – on literary production – in key works of the "Realist" and "Naturalist" movements. Perhaps even more important, the course presents how the objectives and discourse of science came to define literary criticism—writing on writing. Students analyze not only literary texts of the period but also the analyses of such texts: Is there such a thing as objective value in art? One (1) laboratory hour required per week. *Prerequisite*: CFLF 453.

CFLF 480 Senior Conference in French 3 Credits

The course is a final year directed, independent study designed to explore and remedy specific areas of weakness of prospective graduates. Different assessment tools are used to enhance students' content knowledge and productive skills in the target language to meet University and ACTFL standards. One (1) laboratory hour required per week. *Prerequisite*: Completion of all required courses for the major.

CFLF 484 Travel-Study Seminar 3 Credits

The course is a travel and independent study in a foreign country under the guidance of faculty members. It is strongly recommended for students in French major or minor. One (1) laboratory hour required per week. *Prerequisite*: Departmental approval.

CFLS 101 Elementary Spanish I 3 Credits

Students acquire a basic level of communication in Spanish through the utilization of the language in context. The course includes a variety of media, including audio, video and the Internet to complement the textbook. Classes meet three (3) lecture hours per week and one (1) laboratory hour per week.

CFLS 102 Elementary Spanish II 3 Credits

Students acquire a basic level of communication in Spanish through the utilization of the language in context. The course includes a variety of media, including audio, video and the Internet to complement the textbook. Classes meet three (3) lecture hours per week and one (1) laboratory hour per week. *Prerequisite*: CFLS 101.

CFLS 201 Intermediate Spanish I 3 Credits

Students build on the knowledge and skills acquired in elementary Spanish, with emphasis placed on communication proficiency and the forging of a strong linguistic base. In addition to the variety of media utilized in elementary Spanish, significantly more authentic cultural artifacts (literary texts, newspaper articles, and films) are introduced throughout the course. Classes meet three (3) lecture hours per week and one (1) laboratory hour per week. *Prerequisite*: CFLS 102.

CFLS 202 Intermediate Spanish II 3 Credits

Students build on the knowledge and skills acquired in elementary Spanish, with emphasis placed on communication proficiency and the forging of a strong linguistic base. In addition to the variety of media utilized in elementary Spanish, significantly more authentic cultural artifacts (literary texts, newspaper articles, and films) are introduced throughout the course. Classes meet three (3) lecture hours per week and one (1) laboratory hour per week. *Prerequisite*: CFLF 201.

CFLS 303 Spanish Pronunciation and Phonetics 3 Credits

This course treats the proper pronunciation of Spanish and the perfecting of a near-native Spanish diction through the aid of phonetic transcription and authentic Spanish videos and audio texts. One (1) laboratory hour required per week. *Prerequisite*: CFLS 202.

CFLS 304 Spanish Conversation 3 Credits

This course deals with improving listening comprehension and oral expression by forcing the student to enhance his/her vocabulary through copious readings, viewing videos and discussing cultural topics. Emphasis will also be placed on writing. One (1) laboratory hour required per week. *Prerequisite*: CFLS 202.

CFLS 307 Business Spanish I 3 Credits

The course is designed to introduce students to basic business concepts while providing fundamental terminology and usage in Spanish. Students will acquire the rudiments of some functional areas of business, examine the protocol of business environments, read and analyze commercial texts. Sensitivity to and appreciation of cultural content and differences in the Hispanic business world are also integral parts of instruction. Classes are conducted entirely in Spanish. One (1) laboratory hour required per week. *Prerequisite*: CFLS 202.

CFLS 308 Business Spanish II 3 Credits

The course is a continuation of CFLS 307, Business Spanish I. It emphasizes the practical application of concepts taught previously, practice in carrying out typical business transactions in Spanish, and writing business documents in Spanish. Translations and case analysis of the experiences of actual business entities in the Hispanic world are also integral parts of instruction. Classes are conducted entirely in Spanish. One (1) laboratory hour required per week. *Prerequisite*: CFLS 307.

CFLS 315 Latin American Civilization 3 Credits

This course treats the geography, history, institutions, and cultural development of the Latin-American world. One (1) laboratory hour required per week. *Prerequisites*: CFLS 303 and CFLS 304.

CFLS 325 Survey of Peninsular Literature I 3 Credits

The course includes a study of the outstanding works of major authors and the major literary movements from the Middle Ages to the Golden Age. *Prerequisite*: CFLS 315.

CFLS 326 Survey of Peninsular Literature II 3 Credits

The course includes a study of the outstanding works of major authors and the major literary movements from the seventeenth century to the present. One (1) laboratory hour required per week. *Prerequisite*: CFLS 315.

CFLS 327 Survey of Latin American Literature I 3 Credits

The course is a study of the representative works of Latin American literature, including Afro-Hispanic literature and covers the pre-Hispanic, colonial and independence eras. The second half covers the post-independence period to the present. One (1) laboratory hour required per week. **Prerequisite**: CFLS 304.

CFLS 328 Survey of Latin American Literature II 3 Credits

Study of the representative works of Latin American literature, including Afro-Hispanic literature. The first half of this two-part series covers the pre-Hispanic, colonial and independence eras. The second half covers the post-independence period to the present. One (1) laboratory hour required per week. *Prerequisite*: CFLS 304.

CFLS 335 Intensive Readings in Spanish Literature I 3 Credits

The course is a survey of grammar with emphasis on improving and reinforcing reading skills. One (1) laboratory hour required per week. **Prerequisite**: CFLS 304 or approval of the instructor.

CFLS 336 Intensive Readings in Spanish Literature II 3 Credits

The course is a continuation of CFLS 335 including reading and analysis of increasingly rigorous texts from different fields. One (1) laboratory hour required per week. *Prerequisite*: CFLS 335 or approval of the instructor.

CFLS 351 Composition and Translation I 3 Credits

The course discusses advanced problems in grammar and syntax, written exercises, and free composition. It features instruction in writing different genres and modifying writing style to accommodate specific audiences, techniques for promoting cultural and global awareness. The course includes instruction in stylistic features of writing that distinguish Spanish from English. Classes are conducted entirely in Spanish. One (1) laboratory hour required per week. *Prerequisite*: CFLS 304 or CFLS 335.

CFLS 352 Composition and Translation II 3 Credits

The course discusses advanced problems in grammar and syntax, written exercises, and free composition. It features instruction in writing different genres and modifying writing style to accommodate specific audiences, techniques for promoting cultural and global awareness. The course includes instruction in stylistic features of writing that distinguish Spanish from English. Classes are conducted entirely in Spanish. One (1) laboratory hour required per week. *Prerequisite*: CFLS 304 or CFLS 335.

CFLS 353 Spanish Literature of the Middle Ages 3 Credits

The course is an introduction to the Spanish people through their literature of the twelfth, thirteenth, and fourteenth centuries. The selections studied illustrate national traits, or major facets of the Spanish people. Through reading these works, students become better acquainted with the evolution of Spanish literature and the people. One (1) laboratory hour required per week. *Prerequisites*: CFLS 325 and CFLS 326.

CFLS 354 Literature of the Golden Age 3 Credits

The course is an analysis of conditions, which produced the Golden Age, with emphasis on the life and thought of Cervantes. It includes readings from the Quixote and Novelas Ejemplares. One (1) laboratory hour required per week. *Prerequisite*: CFLS 353.

CFLS 391 Advanced Spanish Grammar and Composition I 3 Credits

The course provides instruction in advanced grammatical problems and stylistics, emphasizing the mastery of the use of nouns, pronouns, adjectives, adverbs, prepositions, and conjunctions. It also includes instruction in the formation of simple and complex sentence structures. Classes are conducted entirely in Spanish. One (1) laboratory hour required per week. *Prerequisites*: CFLS 303 and CFLS 304.

CFLS 392 Advanced Spanish Grammar and Composition II 3 Credits

The course provides instruction in advanced grammatical problems and stylistics, emphasizing the mastery of the use of nouns, pronouns, adjectives, adverbs, prepositions, and conjunctions. It also includes instruction in the formation of simple and complex sentence structures. Classes are conducted entirely in Spanish. One (1) laboratory hour required per week. **Prerequisite**: CFLS 391.

CFLS 411 Latin American Literature 3 Credits

The course presents main trends of Spanish-American literature from the colonial to the contemporary period. It includes lectures, commentaries, and class discussion. One (1) laboratory hour required per week. *Prerequisite*: CFLS 315.

CFLS 415 Survey of Peninsular Civilization 3 Credits

This course treats the history of Spain from its origin to the present. It will delve into the social and political institutions and explore their impact on contemporary Spanish society. It will also provide a cursory view of artistic - architectural, musical and literary - as well as philosophical movements throughout the Ages. Classes are conducted entirely in Spanish. One (1) laboratory hour required per week. *Prerequisite*: CFLS 391.

CFLS 416 Survey of Latin American Civilization 3 Credits

The course is a study of the political, economic, and cultural history of Latin America from pre-Columbian times to the present. Special emphasis is on the role of black Latin America in the development of Latin American civilization. One (1) laboratory hour required per week. *Prerequisite*: CFLS 415.

CFLS 419 Spanish Linguistics 3 Credits

This course is an introduction to the scientific study of language with focus on the analysis and description of language. Topics include language acquisition, writing systems, sound systems, meaning, and language change in society. One (1) laboratory hour required per week. *Prerequisites*: CFLS 391 and CFLS 392.

CFLS 422 Romanticism 3 Credits

The course is a literary investigation of the Romantic Movements in Spain. Topics include the theories regarding foreign influences on the development of Spanish Romanticism, versus indigenous Spanish Romanticism. Important precursors and major authors are studied. One (1) laboratory hour required per week. *Prerequisite*: CFLS 416 or approval of instructor.

CFLS 425 Modernism 3 Credits

The course is an intensive study of the major modernist writers of Latin America and selected modernist authors of Spain. There is a special focus on a comparative study of the parallel and divergent developments of modernism in Spain and Latin America, paying special attention to the contributions of Rubén Darío. One (1) laboratory hour required per week. *Prerequisite*: CFLS 422.

CFLS 440 Directed Study 3 Credits

This course is designed to allow majors to do more in-depth study and investigation of special areas of interest or to improve their language proficiency. The student works under the close supervision of a professor who will prescribe a plan of action (which must be approved by the department chair in advance) to be followed. Student must be able to work independently on the Internet. One (1) laboratory hour required per week. *Prerequisites*: Successful completion of all required 300 level courses.

CFLS 447 Afro-Hispanic Literature I 3 Credits

This course is an historical and cultural overview of the African Diaspora in Latin America, with special emphasis on the development of the Afro-Hispanic literary canon. A variety of literary forms will be treated and will include poetry, the novel, short stories, critical essays and other narrative materials. There will also be an articulation around three components: slavery, negrista and neo-negrista movements, and will allow students to discuss the question of the Black Diaspora and the literary treatment of race and identity and other key concepts. One (1) laboratory hour required per week. *Prerequisite*: CFLS 416 or approval of instructor. (Recommended for students interested in studying abroad in Latin America).

CFLS 448 Afro-Hispanic Literature II 3 Credits

This course is an historical and cultural overview of the African Diaspora in Latin America, with special emphasis on the development of the Afro-Hispanic literary canon. A variety of literary forms will be treated and will include poetry, the novel, short stories, critical essays and other narrative materials. There will also be an articulation around three components: slavery, negrista and neo-negrista movements, and will allow students to discuss the question of the Black Diaspora and the literary treatment of race and identity and other key concepts. One (1) laboratory hour required per week. *Prerequisite*: CFLS 416 or approval of instructor. (Recommended for students interested in studying abroad in Latin America).

CFLS 461 Explicación de Textos 3 Credits

This is an in-depth course in literary analysis that aims to prepare students for close textual reading and writing. It treats detailed critical analysis of selected passages with references to biographical elements, sources of origins, literary meaning, authenticity, and aesthetic qualities. Students produce oral and written reports in Spanish. Class is conducted entirely in Spanish. One (1) laboratory hour required per week. *Prerequisites*: CFLS 351 or CFLS 391.

CFLS 480 Senior Conference in Spanish 3 Credits

This is a final-year directed independent study designed to explore and remedy specific areas of weakness of prospective graduates. Different assessment tools will be used to enhance the students' content knowledge and productive skills in the target language to meet both the University and ACTFL standards. One (1) laboratory hour required per week. *Prerequisite*: Successful completion of all required courses for the major.

CFLS 484	Travel Study Seminar	3 Credits
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Travel and independent study in a foreign country under the guidance of responsible faculty members. Strongly recommended for majors and minors. One (1) laboratory hour required per week. *Prerequisite*: Approval by the department chair.

CHIS 201 U. S., Africa and the World History I 3 Credits

These courses investigate the interactions between various continental peoples of Africa, Asia, Europe, and the Americas. The first semester examines events, perspectives, experiences and ideologies up to 1500. This course critically analyzes the social, economic, political, and geographical theories that have shaped global society.

CHIS 201H U. S., Africa and the World History I 3 Credits ea.

A one-year thematic course that provides an opportunity to analyze historical methodology and theories from a global perspective in relationship to social, economic, political and geographic factors. The past is examined in regard to understanding the present and predicting future events. Focus is on interaction between the continental peoples of Africa, North and South America, Asia and Europe. Satisfies General Education Core requirement in history.

CHIS 202 U. S., Africa and the World History II 3 Credits

These courses investigate the interactions between various continental peoples of Africa, Asia, Europe, and the Americas. The second semester continues the investigation to the present. This course critically analyzes the social, economic, political, and geographical theories that have shaped global society.

CHIS 202H U.S. African and the World History II 3 Credits

This course is the second part to 201H: a one-year thematic course that provides an opportunity to analyze historical methodology and theories from a global perspective in relationship to social, economic, political and geographic factors. The past is examined in regard to understanding the present and predicting future events. Focus is on interaction between the continental peoples of Africa, North and South America, Asia and Europe. Satisfies General Education Core requirement in history.

CHIS 211 U.S. History to 1865 3 Credits

This course covers the social, political, and economic development of American life with special emphasis on the development of American nationality. The first semester covers the period from 1492 to 1865.

CHIS 212 U.S. History since 1865 3 Credits

This course covers the social, political, and economic development of American life with special emphasis on the development of American nationality. The second semester covers the period from 1865 to the present.

CHIS 317 Civil War and Reconstruction 3 Credits

This course critically examines the economic, social, and political causes of the Civil War. It also relates the social changes growing out of the war and the Reconstruction period to present issues.

CHIS 319 African-American History to 1877 3 Credits

Critical analysis of the experiences of African-Americans from their African societies, enslavement and transportation to America, up to 1877. The course includes the development of North American racism, the experiences of slavery, sectionalism, the Civil War, and Reconstruction.

CHIS 320 African-American History since 1877 3 Credits

Critical analysis of the experiences of African Americans from the Post-Reconstruction period to the present. Major topics include segregation, urban life, the Civil Rights Movement, and black contributions to American culture and society.

CHIS 350 History of Africa to 1800 3 Credits

An historical survey of pre-colonial African societies, from earliest times to 1800, emphasizing geography, sociocultural institutions, and politics.

CHIS 351 History of Africa since 1800 3 Credits

An historical survey of Africa from the 19th century to the present with special emphasis on colonialism, growth of African nationalism, neo-colonialism, and contemporary issues of African nations amid globalization.

CHIS 355 United States in the Twentieth Century-Women 3 Credits

An historical analysis of the growth of the United States as a world power in the twentieth century. It emphasizes economic, political, and social aspects of the American experience.

CHIS 360	American Social and Intellectual History	3 Credits	
A study of the effect that ideas and intellectual currents have on social life in modern America. Evaluation of thinkers of America's recent past and their impact on the daily life of the country.			
CHIS 403	Historical Methods	3 Credits	
A study of the sources utilized by historians in their attempts to re-create the past. Research papers are required.			
CHIS 404	Early Modern Europe	3 Credits	
Analysis of factors that produced modern European civilization. Topics include the Renaissance, the Reformation, the scientific revolution, the Enlightenment, and the rise of nationalism.			
CHIS 405	Modern Europe since 1815	3 Credits	

A study of the social and political upheavals of the nineteenth century in Europe. Covers industrialization, nationalism, democracy, and the mass movements represented by socialism and fascism. 3 Credits **History of Georgia** A survey of the history of Georgia from colonial times to the present of particular significance to prospective teachers in elementary and secondary education. **CHIS 433 History of Urban America** 3 Credits Examines the development of modern urban institutions, focusing on community growth and organization, delivery of goods and services, governmental structure, and public policy The Jim Crow South 3 Credits An examination of racial segregation as practiced in the southern region of the United States from Reconstruction through the 1960s. Students will analyze historical readings and document oral accounts of African-Americans who experienced segregation. **Independent Study** 3 Credits ea. A program of reading, research, and writing in which students engage in a critical examination of one or more selected topics under the guidance of the instructor. **CHIS 490 Senior Seminar** 3 Credits A required research and writing course for seniors in which students utilize primary sources and complete a major paper integrating the various historical themes and interpretations introduced in earlier courses. **Special Topics in Contemporary History** 3 Credits A study of the major forces and ideas as well as social, political and economic developments in contemporary history. Special thematic emphasis may vary from one semester to the next. CHON 100H/102H Freshman Honors Seminar 1 Credit ea. Exploration of topics regarding adjustment to the demands of University life. Special attention is devoted to problems peculiar to Honors Program students. Satisfies requirement for First-Year Student Seminar. **CHON 399H Independent Study** 1-6 Credits Students identify a problem, issue or topic, outside the major, to be explored in depth under the supervision of a teacher with expertise in the selected area. Credit hours may not exceed three (3) hours per semester, and cannot exceed six (6) hours during undergraduate tenure. **Senior Thesis** Application of research methods to students' major area of concentration. They identify a research topic from their major courses, develop a research design, and complete the senior thesis under the guidance of an instructor. Methods of Teaching Early Childhood Health and 3 Credits **Physical Education** This course is designed for candidates who will be teaching physical education at the elementary school level. The course provides a source of information about the most recent trends and developments in physical education, addressing the inclusion of students with special needs, temporary and permanent adaptive strategies, program evaluation, safety procedures, equipment selection, program planning motor exploration, physical fitness, and as a resource for new games, stunts, dances, and fitness development. Pedagogical strategies, Multicultural approaches, technology integration and curriculum design will be emphasized. Prerequisite: Admission to Teacher Education or Educational Studies. **CHPE 413 Health Education Curriculum and Methods** 3 Credits This course provides the background information and skills teachers need to implement comprehensive school health at grade levels in which they are certified. The course includes information on the six categories of risk behavior identified by the Centers for Disease Control and Prevention: (1) communicable diseases, (2) sexually transmitted diseases, (3) non-communicable diseases, and (4) chronic degenerative disease. It examines educational reforms that focus on improving the health of today's youth. Prerequisite: Admission to Teacher Education or Educational Studies **CHUM 209H Cross-Cultural Humanities** 3 Credits Study of social, religious, and literary movements and the individuals who have contributed to the cultural development of modern day society. Satisfies General Education Core requirement for humanities. **CHUM 228 Interdisciplinary Humanities I: Early Period - to 1914** 3 Credits This course introduces students to the rich diversity of cultural forms that flourished prior to World War I, covering the period from approximately 1500 to 1914. The course emphasizes three core areas of study: (1) basic similarities between cultures with little or no interactions; (2) non-European cultures, generally; and (3) the influence of earlier cultures on Western civilization. Interdisciplinary Humanities II: Modern Period -**CHUM 230** 3 Credits **World War I to Present** This course examines the modern developments during the twentieth century. The course focuses on major changes in aspects of human evolution in political systems; new directions in fine art and drama; novel philosophical themes; new technological inventions; new discoveries in science; and new forms of literary expression. The course will give particular attention to the emergence of cultural pride among people of the developing nations and the unlimited possibilities in an expanding world for cultural creativity or ultimate destruction. **CMAT 104 Finite Mathematics** 3 Credits

CMAT 105	Pre-Calculus I	3 Credits
Fundamentals of algebra for study in and inequalities of first and second of	n analytic geometry and calculus. Concepts include the real numbers degree, and functions and their graphs. <i>Prerequisites</i> : CMAT 104 or	s system, basic algebra, equation Institutional placement.
CMAT 106	Pre-Calculus II	3 Credits
	study in analytic geometry and calculus. Concepts include trigono uences and series. <i>Prerequisite</i> : CMAT 105 or Institutional placemen	
CMAT 107	Pre-Calculus (Accelerated)	3 Credits
	ADD COURSE DESCRIPTION	
CMAT 108	Combined Pre-Calculus	6 Credits
	lving in mathematics. It will focus on concepts necessary to solve a vent to undertake a successful study of calculus, statistics or other nental approval required.	
CMAT 109	College Algebra for Business and Economics	3 credits
	r system, algebraic techniques, equations, linear models, polynomials tions of these topics to business and economics areas.	s and rational models, exponentia
CMAT 110	Applied Calculus for Business and Economics	3 credits
	signed for students majoring in business and economics. Topics inclu nd application of these topics to business and economics. Prerequisi	
CMAT 111	Calculus I	4 Credits
Real numbers, functions, limits, deri or Institutional placement.	vatives, definite integrals and the applications of these topics. <i>Prere</i>	equisite: CMAT 106 or CMAT 10
CMAT 111H	Calculus I	4 Credits ea.
CMAT 111H incorporates mathemat	cical research in calculus principles.	
CMAT 112	Calculus II	4 Credits
	of integration with applications to volume and surface area of solids ates, improper integrals, and infinite series. <i>Prerequisite</i> : CMAT 11	
CMAT 112H	Calculus II	4 Credits
	component and introduces the concept of continuity of a function of and applications of the calculus to elementary problems in natural s	
CMAT 113	Calculus for Biological Science	3 Credits
CMAT 211	Calculus III	4 Credits
Topics include multidimensional Prerequisite : CMAT 112.	calculus, namely partial derivatives, multiple integrals, vector	calculus and their applications
CMAT 211H	Calculus III	4 Credits
their applications. <i>Prerequisite</i> : CM	ides three-dimensional analytic geometry, partial derivatives, mult AT 112.	· · ·
CMAT 212	Differential Equations	3 Credits
equations with constant and variable	on and classification of differential equations. Techniques for first on e coefficients, methods of undetermined coefficients, variation of par near equations, and applications. <i>Prerequisite</i> : CMAT 112 or CMAT	ameters, Cauchy-Euler equation
CMAT 212H	Differential Equations	3 Credits
variable coefficients, methods of u	rential equations. Techniques for first-order nonlinear equation, lindetermined coefficients, variation of parameters, Cauchy-Euler explications. <i>Prerequisites</i> : CMAT 112 or CMAT 211	
CMAT 214	Linear Algebra	3 Credits
	near algebra. Topics include vectors, matrices, linear equations, de with an inner product. Prerequisite : CMAT 106 or equivalent.	eterminants, vector spaces, linea
CMAT 214H	Linear Algebra	3 Credits
Introduction to linear algebra. Top Prerequisites : CMAT 106, or equiva	ics include vectors, matrices, linear equations, determinants, vectoralent.	or spaces with an inner produc
CMAT 307	Structure of Elementary Mathematics I	3 Credits

This course is an introduction to problem solving, whole number computation, elementary set theory, numeration systems, algebraic thinking and functions, proof techniques, and number theory. *Prerequisite*: CMAT 105. **Geometry for Pre-Secondary Teachers** 3 Credits This course focuses on the cultural aspects of geometry, basic Euclidean Theorems, congruence and similarity, constructions, mensuration, symmetry, tiling, graph theory, proof techniques, and elements of Cartesian Geometry. Prerequisite: CMAT 105 or CMAT 307. **CMAT 309** Structure of Elementary Mathematics II 3 Credits This course is a study of the real number system and its basic properties, elementary probability and statistics; emphasis will be placed on application, analysis, and evaluative aspects of teaching mathematics to elementary and middle grade students, *Prerequisites*: CMAT 105 and CMAT 106 or CMAT 111 or CMAT 307. **Geometry for Secondary School Teachers** 3 Credits **CMAT 310** This course is a study the field of secondary school mathematics from both quantitative and qualitative viewpoints. Students learn mathematical concepts and teaching strategies. Prerequisites: CMAT 105 and CMAT 106 or CMAT 111 and CMAT 112. **CMAT 311 Mathematical Logic** 3 Credits This course is a study of sets and equivalence classes, Boolean algebra, the role of axiomatic in the structure of mathematics, basic principles of logic involving rules of modus ponens, reduction absurdum, propositional calculus, first order logic, and the nature of mathematical proof. *Prerequisite*: CMAT 111 or departmental approval. **CMAT 321 Mathematical Probability and Statistics I** 3 Credits This course is an introduction to probability; distribution functions and moment generating functions; correlation and regression; development and applications of the binomial, normal, Student's t, chi square, and F distributions; Poisson's and Cauchy's distributions. Prerequisite: CMAT 112 or departmental approval. **CMAT 322** Mathematical Probability and Statistics II 3 Credits This course is a continuation of CMAT 321; distribution functions and moment generating functions; correlation and regression; development and applications of the binomial, normal, Student's t, chi square, and F distributions; Poisson's and Cauchy's distributions. Prerequisite: CMAT 321 **CMAT 325** Modern Algebra I 3 Credits This course introduces a study of the number system, groups, rings, fields, matrices and linear transformations, and other algebraic systems, vector spaces, systems of equations, reducible polynomials, and algebraic and transcendental numbers. *Prerequisite*: CMAT 311 or departmental approval. **CMAT 326** Modern Algebra II 3 Credits This course is a continuation of CMAT 325. This course includes a study of the number system, groups, rings, fields, matrices and linear transformations, linear algebra, and other algebraic systems, vector spaces, systems of equations, reducible polynomials, and algebraic and transcendental numbers. Prerequisite: CMAT 325. **CMAT 421 Advanced Calculus I** 3 Credits This course includes a study of sets, relations and functions, mathematical induction, equivalent and countable sets, real numbers, order and completeness, sequences, series, limits of functions, and continuity, the Riemann integral, improper integral. Metric spaces, completeness, compactness, sequences and series of functions, uniform continuity and convergence, integral of sequences and series of functions. Prerequisites: CMAT 211 and CMAT 311. **CMAT 422 Advanced Calculus II** 3 Credits This course is a continuation of CMAT 421. An expanded discussion of sets, functions, real numbers, order and completeness, the Riemann integral, improper integral, Metric spaces, completeness, compactness, sequences and series of functions, uniform continuity and convergence, integral of sequences and series of functions. Prerequisite: CMAT 421. **CMAT 423 Introduction to Complex Variables I** 3 Credits This is an introductory course in complex variables, including the complex numbers, analytic functions, elementary functions, complex integrals, series, residues, poles, and mapping by elementary functions. Prerequisite: CMAT 211. **Introduction to Complex Variables II** 3 Credits This course is a continuation of CMAT 423. Expanded discussion of complex numbers, analytic functions, elementary functions, complex integrals, series, residues, poles, and mapping by elementary functions is covered. Prerequisite: CMAT 423. Introduction to Topology I 3 Credits This course includes the study of limits and metric spaces, continuous functions on metric spaces and general topological spaces, completeness, product spaces. Prerequisites: CMAT 211 and CMAT 311 or departmental approval. **CMAT 428 Introduction to Topology II** 3 Credits This course is a continuation of CMAT 427. This course includes the study of limits and metric spaces, continuous functions on metric spaces and general topological spaces, completeness, product spaces. Prerequisite: CMAT 427. **Numerical Analysis** This course is an introductory study of numerical algorithms for the solution of algebraic, differential and partial differential equations, error analysis. Prerequisites: CMAT 212 and CMAT 214. **CMAT 443 Introduction to Operation Research** 3 Credits

This course includes linear programmi management problems. <i>Prerequisites</i> : 0	ng, duality, sensitivity analysis, integer programming and application	ons to various decision and
CMAT 461	Introduction to the Theory of Numbers	3 Credits
	antine equations, congruencies, theory of residues and indices, poly ical problems in number theory. <i>Prerequisite</i> : CMAT 325 or departm	
CMAT 471	Discrete Mathematical Structures	3 Credits
This course is an introduction to fine Prerequisite : CMAT 111 or department	te mathematical structures and their application to computation al approval.	al and computer sciences.
CMAT 475	Seminar I	3 Credits
This course includes selected topics, pag	ers, projects, and research in mathematics. <i>Prerequisite</i> : Departmen	tal approval.
CMAT 476	Seminar II	3 Credits
This course includes selected topics, pap	ers, projects, and research in mathematics. <i>Prerequisite</i> : Departmen	tal approval.
CMAT 480	Independent Study	1 - 3 Credits
This course includes selected topics, pap	pers and projects. <i>Prerequisite</i> : Departmental approval.	
CMAT 483	Mathematics in Community Service	3 Credits
This course is an expansion of the depart <i>Prerequisite</i> : Departmental approval.	mental tutorial program. This expansion is a community course in ser	vice to local school students.
CMAT 497	Internship	3 Credits
This course offers students career-relate majors are encouraged to participate. <i>Pu</i>	d work experiences. Although the internship does not carry credit towerequisite: Departmental approval.	ard the degree, mathematics
CMAT 501	Calculus and Linear Algebra	3 Credits
This is a course for non-mathematic	s majors who are deficient in the tools of calculus and linear a	lgebra.
CMAT 521	Real Analysis I	3 Credits
Theory of Lebesgue measure and in	tegration.	
CMAT 522	Real Analysis II	3 Credits
This course is a continuation of CM Banach and Hilbert spaces, product	AT 521. An expanded discussion of the Theory of Lebesgue r measure and product integration.	neasure and integration,
CMAT 523	Complex Variables I	3 Credits
	and applications of functions of a complex variable; topics in ions, conformal mapping and analytic continuation.	clude analytic functions,
CMAT 524	Complex Variables II	3 Credits
This course is a continuation of CMA variable is covered.	T 523. An expanded discussion of the theory and applications	of functions of a complex
CMAT 525	Algebra I	3 Credits
This course covers the basic theory include Galois theory and category	of groups, Sylow theorems, rings, integral domains, fields and r heory.	nodules; advanced topics
CMAT 526	Algebra II	3 Credits
	IAT 525. An extended discussion of groups, Sylow theorems, s include Galois theory and category theory	rings, integral domains,
CMAT 527	Topology I	3 Credits
The course includes the study of to completeness, compactness and pro	pological concepts including metric and topological spaces, co duct spaces.	ontinuity, connectedness,
CMAT 528	Topology II	3 Credits
	T 527. An expanded discussion of topological concepts including ompleteness, compactness and product spaces are covered.	ng metric and topological
CMAT 541	Principles of Applied Mathematics I	3 Credits
	ious techniques of applied mathematics including Fourier Trar vibration, integral and differential operators in Hilbert spac	
CMAT 542	Principles of Applied Mathematics II	3 Credits
		1

This course is a continuation of CMAT 541. An expanded discussion of various techniques of applied mathematics including Green's functions, string vibration, integral and differential operators in Hilbert spaces, spectral analysis and Laplace transforms are covered. **CMAT 551** 3 Credits **Biostatistics** Statistical theory and methods applied to biological research are emphasized. **Probability Theory and Stochastic Processes I** 3 Credits The course focuses on probability theory including central limit theorem and ergodic theory. Also included is study of stationary processes, independent increment processes and Gaussian processes. **Probability Theory and Stochastic Processes II** 3 Credits This course is continuation of CMAT 601. An expanded discussion of probability theory, ergodic theory, stationary processes, independent increment processes and Gaussian processes is covered. **CMAT 605 Partial Differential Equations** 3 Credits The course is a study of techniques for solving partial differential equations, including distributions, Sobolev spaces and Hilbert space methods. **CMAT 607 Introduction to Numerical Methods** 3 Credits The course includes a study of numerical algorithms for the solution of algebraic, differential and integral equations including error analysis. **Advanced Numerical Methods CMAT 608** The course includes a study of advanced techniques of numerical analysis including finite difference and finite element approximations for elliptic and parabolic equations. Also included are various functional analytic techniques. **Introduction to Control Theory** The course focuses on control theory including the calculus of variations, Hamilton-Jacobi theory and Pontryagin's maximum principle; topics include stochastic control depending on interest. **Foundations of Mathematics** 3 Credits **CMAT 610** Students study basic concepts and ideas in the philosophy and foundations of mathematical sciences, topics varying with the needs of students. 3 Credits **CMAT 611 Mathematical Logic** Study of Boolean algebraic and logic concepts with applications to circuit design and theorem proving. 3 Credits **CMAT 612** Theory of Sets The course topics include the descriptive theory of sets and functions, the cartesian product, relations, counting, transfinite arithmetic, well ordered sets and cardinal numbers, and the equivalence of the axiom of choice, the well-ordering theorem and Zorn's Lemma. **Nonlinear Optimization I** 3 Credits Analytical and numerical treatment of finite dimensional nonlinear programming; Computational aspects of constrained extremum problems; current developments. **Nonlinear Optimization II** 3 Credits This is a continuation of CMAT 615. An expanded discussion of analytical and numerical treatment of finite dimensional nonlinear programming and computational aspects of constrained extremum problems is covered. 3 Credits **CMAT 628 Functional Analysis** Linear Spaces, Normed Spaces, Banach Spaces, Hahn-Banach theorem, open-mapping theorem, closed-graph theorem, strong and weak convergence. **CMAT 639 Differential Equations** 3 Credits Advanced coverage of Ordinary differential equations; topics varying with interest of the instructor. 3 Credits **Operations Research I** Techniques for analytical formulation of decision problems, including linear programming, convex programming, dynamic programming, queuing models, replacement models, and stochastic processes.

CMAT 644	Operations Research II	3 Credits
This course is a continuation of CMAT 643. An expanded discussion of techniques for analytical formulation of decision problems is covered.		
CMAT 651	Topics in Mathematics	3 Credits

Study of topics of current interest in the Department of Mathematical Sciences. Students will complete and present a research-based project on a selected issue in the field of mathematics. **CMAT 675** Thesis Seminar I 3 Credits Students develop a research topic leading to the completion of a graduate thesis. 3 Credits **CMAT 676** Thesis Seminar II Students develop a research topic leading to the completion of a graduate thesis. **Basic News Writing and Reporting** 3 Credits A lecture and laboratory course which emphasizes writing various types of news stories for print and broadcast media. Prerequisites: CENG 105, and CENG 106, with a final grade of "C" or better. **CMMA 201** Survey of Media and Society 3 Credits A comprehensive examination of the historic foundations and current status of the mass media. Emphasis will be placed on social and economic controls as well as the impact and influence of the mass media in today's society. Prerequisites: CENG 105, and CENG 106, with a final grade of "C" or better. **CMMA 203** 3 Credits Multimedia Writing, Reporting and Storytelling This course introduces students to the basic characteristics of writing for print, radio, television, the Internet and film. Students examine requirements for various kinds of formats and scripts including commercials, short and long form narratives, talk shows, news stories, features, documentaries, and interactive media. *Prerequisites*: CMMA 200, and CMMA 201. **CMMA 301** 3 Credits **News Editing I** A practical course that uses simulated news copy and wire service stories to give students training in theory and practice of copy editing, headline writing, page design, and picture sizing and cropping. This class is designed to develop students' critical-thinking, and professional skills that are basic to an editor's job: grammar, spelling, punctuation, and style; content, editing, ethics; libel; inflammatory language; editing with speed and accuracy, etc. Prerequisite: CMMA 203. **CMMA 302 News Editing II** 3 Credits This laboratory course combines theory with hands-on production activities. Students are required to produce a prototype of a newspaper or magazine. Students will follow through with skills refined in CMMA 301, News Editing I, but acquiring a solid grounding and learning layout and design and digital photography. Prerequisite: CMMA 301. **CMMA 305** African-American Images in the Media 3 Credits This course will explore the characterization and interpretation of the image of African-Americans in film and television and attempts to qualify their value as a catalyst for social, political, and cultural change. This course will also assess the dynamics of basic thought propagated through negative imagery in films, television, and other media. Prerequisites: CMMA 201, and CMMA 203. **CMMA 306** History and Criticism of Film 3 Credits Historic and aesthetic contributions of famous films, filmmakers and film critics examined. Particular subjects include the psychological effects of editing techniques and Russian and French cinema. There is a special emphasis on African- American and Third-World films. Prerequisites: CMMA 201, and CMMA 203 **Public Relations Principles, Practices and Theory CMMA 307** 3 Credits An introductory concept course that surveys the principles, theories, strategies, techniques and practices of the public relations profession. Prerequisites: CMMA 201, and CMMA 203 **CMMA 308 Introduction to Radio-Television-Film** 3 Credits This course will familiarize students with the organizations, equipment and terminologies typically utilized in radio, television, and film. Operational procedures, FCC regulations, and styles of writing applicable to broadcasting and film are introduced. Prerequisites: CMMA 201, and CMMA 203. **CMMA 310 Public Opinion and Propaganda** 3 Credits This course is an introduction to the nature of public opinion and propaganda from an historical perspective that spans cultures and contemporary world societies. Emphasis is placed on the use and abuse of persuasive communication techniques and the economic, political, social, and cultural interrelationships which determine the role of mass media in human affairs. Prerequisites: CMMA 201, and CMMA 203. **CMMA 313 Photojournalism** 3 Credits This course emphasizes communicative effects of pictures and proper selection and display of photographs. Students must supply their own 35mm cameras. Prerequisites: CMMA 201, and CMMA 203. **CMMA 315 Mass Communications Research Methods** 3 Credits An introduction to quantitative and qualitative research methods and procedures used to study issues and problems in mass communications. This course covers sampling, research design, observation and measurement, statistics, data analysis, documentation/reporting formats, and execution strategies/tools. Prerequisites: CMMA 200, and CMMA 201 **CMMA 318** Public Relations Media Development and Copy Editing 3 Credits

Covers public relations techniques for the dissemination of messages to multiple groups across internal and external organizational print, electronic, and audiovisual media. This course focuses on practical skills for editing copy and implementing media strategies. *Prerequisite*: CMMA 203, and CMMA 307.

CMMA 320 History of Journalism 3 Credits

A concentrated lecture-discussion course in an historical context. The growth of American journalism is traced, including the contributions of African-Americans, Hispanics, Native Americans and Asians. Students identify major personalities and examine socioeconomic factors affecting journalism in the United States. *Prerequisites*: CMMA 201, and CMMA 203.

CMMA 325 Editorial and Critical Writing 3 Credits

A lecture-discussion and writing course which concentrates on writing editorials, book and film reviews, and columns. The critical and analytical approaches of selected major national and international newspapers are examined. *Prerequisites*: CMMA 201, and CMMA 301.

CMMA 327 History and Development of Radio and Television 3 Credits

This course traces the growth and early development of radio and television from the earliest technological innovations to modern day. Lectures and discussions review how programming, social trends, and technology interplay to impact society. *Prerequisite*: CMMA 308.

CMMA 331 International Journalism 3 Credits

This course studies the foreign media and provides instruction in techniques and skills needed to write for foreign and/or international organizations. *Prerequisites*: CMMA 201, and CMMA 203.

CMMA 334 Broadcast Journalism and Editing 3 Credits

This lecture-laboratory course is oriented to radio and television broadcasting. Emphasis is on gathering, analyzing, writing, editing and presenting news. Studio and on-location tapings are required. *Prerequisite*: CMMA 308.

CMMA 338 Media Advertising and Sales 3 Credits

This introductory course surveys the basic processes, strategies, and techniques for producing, selling, and evaluating advertising. Emphasis is placed on consumer and marketing research, media advertising, campaigns, marketing plans, media ratings, audience analysis, and media buying plans. *Prerequisites*: CMMA 201, and CMMA 203.

CMMA 348-R/TV/F Fundamentals of Video/Radio/Film Production 3 Credits

Designed to introduce students to basic principles of effective studio and location production. The student will be taught operation of selected production equipment and how to make creative and aesthetic decisions regarding programming. *Prerequisite*: CMMA 308.

CMMA 350 Interpretative Reporting 3 Credits

An advanced writing course which focuses on developing the student's analytical skills and news writing skills for coverage of such governmental bodies as the schools, courts, and city, county, and state agencies. Students will be assigned to cover actual news events and be given instruction in how to analyze the cause of news events through interviewing and the persistent searching of records. Students will be required to publish articles in an approved periodical. *Prerequisites*: CMMA 201, and CMMA 301.

CMMA 352 Feature Writing 3 Credits

A lecture and laboratory course which focuses on developing skills in researching, organizing, and writing all types of feature stories for newspapers and magazines. Students are required to publish articles in an approved periodical. *Prerequisites*: CMMA 301, and CMMA 201.

CMMA 361 Newspaper Production 3 Credits

This course offers a thorough understanding of principles and skills involved in producing a newspaper or magazine. It combines theory with production activities. Students will be taught the organization of a newspaper and its functions as well as headline writing, copy editing, and layout and design. Students enrolled in this course will help produce the award-winning, official CAU student newspaper, *The Panther. Prerequisites*: CMMA 200.

CMMA 418PR Research and Evaluation 3 Credits

This course is designed to help students develop the essential research and analytical skills for the planning, execution and evaluation of action programs that address communication problems and issues faced by organizations and institutions. *Prerequisites*: CMMA 203, Multimedia Writing, Reporting and Storytelling; CMMA 307, Public Relations Principles, Practices and Theory; CMMA 315,

CMMA 422 Philosophy and Ethics of Mass Communications 3 Credits

This course is based on the philosophical assumptions embodied in mass communications systems around the world. A lecture-discussion method is used. *Prerequisite*: CMMA 201, and CMMA 203.

CMMA 425 Communication Law 3 Credits

Study of various laws affecting American media. Concepts of freedom of speech and press, specific laws and alternative interpretations of those laws, federal regulatory agencies' rights in news and advertising, libel, slander, copyrights, and invasion of privacy. *Prerequisites*: CMMA 201, and CMMA 203.

CMMA 462 Media Arts and Design 3 Credits

This course offers students an opportunity to develop basic desktop publishing skills in page design, layout, and other graphic elements necessary for public relations and advertising campaigns. *Prerequisite*: CMMA 318.

CMMA 475 Radio Programming and Production I 3 Credits

Organization and operation of commercial and noncommercial radio stations inclusive of staffing, formats, promotion, and programming. The student receives training as a producer, performer and writer. *Prerequisites*: CMMA 334, and CMMA 348-R/TV/F

CMMA 476	Radio Programming and Production II	3 Credits
	ial and noncommercial radio stations inclusive of staffing, formats, acer, performer and writer. Prerequisite : CMMA 475	, promotion, and programming.
CMMA 477	Video Producing and Directing I	3 Credits
	dents for broadcast editing using linear and non-linear systems. S and editing strategies; audio editing, narration, music and sound ed MA 201, and CMMA 348.	
CMMA 478	Video Producing and Directing II	3 Credits
	ence in producing, directing, and editing. Students are required evision productions. <i>Prerequisites</i> : CMMA 477.	to utilize production skills by
CMMA 479/480	Cinematography I and II	3 Credits ea.
Cinematography II students utilize know	mphasis on use of basic motion picture cameras, editing techn vledge gained in Cinematography I. Special emphasis is placed on 1 quirement. <i>Prerequisites</i> : CMMA 306, and CMMA 348.	
CMMA 485	Public Relations Campaigns	3 Credits
	emporary issues and problems faced by public relations professions use" organizations, and acquire entry-level professional skills in pure CMMA 418.	
CMMA 486	Mass Media Arts Co-Operative Education	3 Credits
Juniors and seniors are allowed to work or film for credit.	full time off-campus (with University supervision) in journalism, pu	ublic relations, radio, television
CMMA 487J	Media Arts Studies	3 Credits
Special course which allows students to	focus and study current media themes, applications, trends, etc. Co $$	ourse content varies.
CMMA 487PR	Media Arts Studies	3 Credits
Special course which allows students to	focus and study current media themes, applications, trends, etc. Co	ourse content varies
Special course which allows studelits to	Tocus and study current media themes, applications, trends, etc. co	rarse content varies.
CMMA 487-R/TV/F	Media Arts Studies: Screenwriting I	3 Credits
CMMA 487-R/TV/F Special course which allows students Screenwriting I will provide a basic un television formats. Students will exam		3 Credits Is, etc. Course content varies I in the production of film and with an emphasis on character
CMMA 487-R/TV/F Special course which allows students Screenwriting I will provide a basic un television formats. Students will exam	Media Arts Studies: Screenwriting I to focus and study current media themes, applications, trend derstanding of story structure and dramatic paradigms essential ine the elements of screenwriting for both film and television w	3 Credits Is, etc. Course content varies I in the production of film and with an emphasis on character
CMMA 487-R/TV/F Special course which allows students Screenwriting I will provide a basic un television formats. Students will examidevelopment, plot construction, scene d CMMA 488 The advanced screenwriting course is a screenplay based on an existing treatmitightening plot and structure, deepening	Media Arts Studies: Screenwriting I to focus and study current media themes, applications, trend iderstanding of story structure and dramatic paradigms essential ine the elements of screenwriting for both film and television we evelopment, narrative structure and dialogue. Prerequisite: CMMA	3 Credits Is, etc. Course content varies I in the production of film and with an emphasis on character A 203. 3 Credits ge. Some will be starting a new emplay. This course emphasizes
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orally and in writing to be evaluated by a panel of faculty and industry professionals. In consultation with their advisors, students may select a topic for their research during the first semester. Research projects should reflect the career or academic interests of the students. *Prerequisite*: Senior Status.

CMUS 100 – 400 First – Fourth Level Ensemble 1 Credit

Faculty supervised performances designed to help students develop their own musical styles in small group settings.

CMUS 101 Fundamentals of Music 2 Credits

This is a preparatory course in the rudiments of music theory required of music majors and minors who do not pass the diagnostic examination in Theory. This course familiarizes students with scales, key signatures, notation symbols, rhythm, meter, intervals and music terminology. This course does not count toward music degree credit nor does it satisfy the General Education Core requirement in Humanities.

CMUS 105 Sight Singing and Ear Training I 3 Credits

Practical study in sight-reading, interval identification, and in melodic dictation. *Prerequisite*: Passing score on the Music Theory diagnostic exam or CMUS 101 with a minimum final grade of "C".

CMUS 106 Sight Singing and Ear Training II 3 Credits

Practical study in sight-reading, interval identification, and in melodic, harmonic, and rhythmic dictation. *Prerequisite*: Passing score on the Music Theory diagnostic exam or CMUS 101 with a minimum final grade of "C".

CMUS 107/108 Applied Music 1 Credit ea.

Weekly private instruction, at the 100 level, for music majors and minors in the following areas of study: voice; piano; wood wind instruments; brass instruments; string instruments; percussive instruments; and organ. Voice majors or minors with limited previous voice study may be required to begin with CMUS 107C or 108C, depending on the semester of entry, Voice. Non-music majors must obtain permission from the applied instructor and will be considered on the basis of specific University ensemble needs and/or space availability.

CMUS 107C Voice Class I 1 Credit

Basic principles and methods of vocal performance focusing on tone production, diction, breathing and vocal repertoire. May be required in the first semester of entry into the music program for voice performance majors or minors who have limited vocal study and/or vocal skills.

CMUS 108C Voice Class II 1 Credit

Continued study of basic principles and methods of vocal studies performance focusing on tone production, diction, breathing and vocal repertoire. Also, may be required in the second semester of the music program for voice performance majors or minors who have limited vocal study and/or vocal skills.

CMUS 109 Instrumental Class 1 Credit ea.

Classes that teach music instrument methodologies for students to perform functionally on string, woodwind, brass and percussion instruments. Section 1: String Class. The study of basic pedagogical principles and repertoire for teaching string instruments to students. Section 2: Woodwind Class. The study of basic pedagogical principles and repertoire for teaching wood wind instruments to woodwind students. Section 3: Brass Class. The study of basic pedagogical principles and repertoire for teaching trumpet, trombone, French horn and tuba to brass students. Section 4: Percussion Class. The study of basic pedagogical principles for teaching rhythm drills, rhythmic dictation and technical proficiency and repertoire in the use of percussive instruments.

CMUS 110 – 410 Atlanta University Symphony Orchestra 1 Credit

A consortium orchestra of students from the Atlanta University Center. Major orchestral works performed several times during the school year. Open to all CAU students by audition and permission of the director. Required for string majors.

CMUS 111 – 411 University Choir/Philharmonic Society 1 Credit

Choral ensembles that perform a wide range of various musical styles and major choral works. Open to all CAU students by audition and permission of the director. Performs music throughout the school year: seasonal concerts, convocations, baccalaureate, commencement and other on- and off-campus functions. Required for voice majors.

CMUS 112 – 412 University Bands 1 Credit

Marching and concert bands that perform wind ensemble music from a broad range of standard band repertoire. Open to all CAU students by audition and permission of the director. The bands provide music throughout the school year at football games, basketball games, seasonal concerts, convocations, approved parades, commencement and other on- and off campus functions.

CMUS 113 - 413 Jazz Orchestra 1 Credit ea.

Performing jazz ensemble that performs a wide range of jazz repertoire from the 1920's to the present. Emphasizes instruction and performance in improvisational style. Open to all CAU students by audition and permission of the director.

1 Credit ea.

CMUS 114A/114B - 414A/ 414B | Performance Seminar

Focuses on the development of complete musicianship for the performer. Topics include but are not limited to public performance – both solo and chamber – technique and musicianship, performers and discographies, and career development. Required 8 semesters for majors. Section 1: Voice Section; 2: Piano Section; 3: Brass; Section 4: Woodwind; Section 5: Strings Section; 6: Percussion

CMUS 115A/115B - 415A/ 415B | Music Seminar | 0 Credit ea.

Provides opportunities for formal and informal discussions on topics and problems in theory, musicology, music literature, music careers. Faculty, guest artists/consultants, and students make presentations. Enrollment and attendance required 8 semesters for music majors, 2 semesters for music minors.

CMUS 116-416 Hand Bell Ensemble 1 Credit

A small ensemble that performs a broad repertoire of hand bell literature. Open by audition to students (music majors/minors or non-music majors). Reading treble or bass clef required. Opportunities for concert performance throughout the year.

CMUS 117A/117B, 217A/217B Piano Class

1 Credit ea.

A four-semester course sequence that provides functional keyboard skills for the Non-piano music major/minor for satisfying the Piano Proficiency Exam. The examination may be taken in any semester during which the student feels prepared to pass the proficiency requirements. *Prerequisite*: Passing score on Music Theory Diagnostic Exam or CMUS 101 with a minimum final grade of "C".

CMUS 119 World Music 3 Credits

The study of representative music of world cultures. Course exams musical style, aesthetic viewpoints, and the function that music fulfills in diverse societies. Students will encounter new musical expressions, and the philosophies and world views that accompany the music.

CMUS 120 Music Appreciation 3 Credits

Provides experiences in critical listening skills and introduces musical elements, forms, and Western historical periods from a multicultural perspective, music of the African Diaspora and ethnic world cultures. Introduces the major musical eras and composers with an emphasis on aural perception of works.

CMUS 201 Music Theory I 3 Credits

The first of a four-course sequence that involves theoretical study in the harmonic, melodic and rhythmic materials of the common practice period. Music technology is infused throughout the course. *Prerequisite*: Passing score on the Music Theory Diagnostic Exam or completion of CMUS 101 with a minimum final grade of "C".

CMUS 202 Music Theory II 3 Credits

The second of a four-course sequence that involves theoretical study in the harmonic, melodic and rhythmic materials of the common practice period. Music technology is infused throughout the course. *Prerequisite*: Passing score on the Music Theory Diagnostic Exam or CMUS 201 with a minimum final grade of "C.

CMUS 204 Basic Conducting 2 Credits

Fundamentals of conducting, baton techniques, musical interpretation, and score preparation for instrumental and choral ensembles. Techniques are studied in a practical laboratory setting. Required for all music majors.

CMUS 207/208 Applied Music 1 Credit ea.

Weekly private instruction, at the 200 level, for music majors and minors in the following areas of study: voice; piano; wood wind instruments; brass instruments; string instruments; percussive instruments; and organ. Voice majors or minors with limited previous voice study may be required to begin with CMUS 107C or 108C, depending on the semester of entry, Voice. Non-music majors must obtain permission from the applied instructor and will be considered on the basis of specific University ensemble needs and/or space availability.

CMUS 216 Introduction to Music Literature 3 Credits

Introduction to composers and their works from the Baroque era to the present. Features significant musical compositions and their influences on Western civilization.

CMUS 218A Music Technology I 1 Credit

An introduction to computers, electronic keyboards and their uses. Basic categories of music software and their uses will be explored in a hands-on approach.

CMUS 218B Music Technology II 1 Credit

More advanced concepts related to electronic keyboards, music software, and their uses in the music industry. Designed for the Composition Concentration major. *Prerequisite*: CMUS 218A with a minimum grade of "C".

CMUS 221 Elementary Music Methods and Practicum 3 Credits

Elementary methods and teaching techniques for music education majors. This course focuses on classroom management, appropriate literature for elementary students, current research in teaching/learning, national and state standards for music education, the use of technology in the classroom, and multicultural materials for all learners. Weekly field experience represents an integral part of the course.

CMUS 232 Survey of the Music Industry 3 Credits

An overview of the business and technical side of the music entertainment industry. Features guest lecturers from the music industry world. Open to non-music majors as an elective.

CMUS 301 Music Theory III 3 Credits

The third course of a four-course Music Theory sequence. Focuses on advanced theoretical concepts, continuing developments of the common practice era, chromatic harmony, 20th century practices, and style analysis. Music technology is infused throughout the course. *Prerequisite*: CMUS 202, Music Theory II or permission of the instructor based on previous cognate studies.

CMUS 302 Music Theory IV 3 Credits

The fourth course of a four-course Music Theory sequence. Focuses on advanced theoretical concepts, continuing developments of the common practice era, chromatic harmony, 20th century practices, and style analysis. Music technology is infused throughout the course. *Prerequisite*: CMUS 301, Music Theory III or permission of the instructor based on previous cognate studies.

CMUS 303 3 Credits Counterpoint Study of contrapuntal works from the 17th and 18th centuries, primarily in the style of J.S. Bach. Contrapuntal devices after Bach's era are also included. Prerequisite: CMUS 301 and CMUS 302 with minimum final grades of "C". Not required for music education majors. Form and Analysis 3 Credits Analysis of small and large musical forms of the Baroque, Classical, Romantic and Twentieth-century periods. *Prerequisite*: CMUS 301, and CMUS 302 with minimum final grades of "C" CMUS 305A Jazz Theory and Improvisation I 3 Credits Theoretical aspects of jazz - including harmonic and formal characteristics - and their application in the art of improvisation. Focusing on analysis, aural recognition, transposition, chord substitution, altered chords, scales, and modes. Prerequisite: CMUS 301. Jazz Theory and Improvisation II A continuation of CMUS 305A, featuring more advanced chord, scale, mode, form, composition and improvisational study and techniques. Prerequisite: CMUS 305A with a minimum final grade of 'C'. CMUS 307/308 **Applied Music** 1 Credit ea. Weekly private instruction at the 300 level, for music majors and minors in the following areas of study: voice; piano; wood wind instruments; brass instruments; string instruments; percussive instruments; and organ. Voice majors or minors with limited previous voice study may be required to begin with CMUS 107C or 108C, depending on the semester of entry, Voice. Non-music majors must obtain permission from the applied instructor and will be considered on the basis of specific University ensemble needs and/or space availability. CMUS 307R or 308R 1 Credit **Junior Recital** Junior Recitals are presented by music majors who must satisfy curriculum requirements for a performance concentration. Appropriate repertoire for the instrument or voice is required; recital must be no less than 30 minutes in length; and must be approved by the department faculty in a pre-recital hearing. Minors and other applied students may present junior recitals upon the approval of their instructors. **CMUS 316** Music History and Literature I 3 Credits Survey of Western art music from the Middle Ages to the present. Emphasis on major style periods, composers, significant music literature, and multiple listening experiences with analytical approaches. Prerequisites: CMUS 203, CMUS 204, CMUS 205, and CMUS 206. **CMIIS 317** Music History and Literature II 3 Credits Survey of Western art music from the Middle Ages to the present. Emphasis on major style periods, composers, significant music literature, and multiple listening experiences with analytical approaches. Prerequisites: CMUS 203, CMUS 204, CMUS 205, and CMUS 206. **CMUS 318 Jazz History** 3 Credits Exploration of jazz idioms from African antecedents through African-American contributions, past and present. Stylistic contributions of many jazz musicians are studied. **CMUS 320** 3 Credits **African American Music** Survey of the musical contributions of African-Americans from their African roots to modern day America. Includes the sociological and historical factors that impact the music and the musicians. Open to non-music majors as an elective. **CMUS 321 Secondary Music Methods and Practicum** 3 Credits Principles, philosophies, national and state standards of music education for the middle and high school learner, including special needs and exceptional students. Emphasis on classroom management, effective teaching techniques, current methodologies, and appropriate literature and materials for secondary general music. Includes the use of technology in the classroom and multicultural materials. **Methods and Materials of Teaching Music CMUS 322** 3 Credits Designed to develop musicianship skills and teaching techniques needed by classroom teachers to direct music activities effectively in the elementary classroom. Music fundamentals, classroom instruments, and teaching materials are introduced through active participation in music activities. Open to music majors as an elective **CMUS 323 Band Organization, Methods** 3 Credits Practical approaches for the prospective band director to develop, organize and manage the total school instrumental program at all levels. Emphasis on rehearsal methods, marching and concert band techniques, classroom management, appropriate band literature for all levels, and festival preparation and repertoire. **CMUS 324 Choral Organization, Methods** 3 Credits Techniques for developing, organizing and managing the school choral program at all levels. Emphasis on choral pedagogy and style, small and large ensembles, tone production, appropriate choral repertoire for all levels, classroom management, rehearsal methods and choral festival preparation. **CMUS 325 Jazz Orchestra Organization and Methods** 2 Credits Practical approaches for developing and managing a school jazz orchestra program. Includes rehearsal techniques, jazz styles, appropriate repertoire, and programming. **CMUS 326 Organ Improvisation and Service Playing** 3 Credits Techniques for improvisation, transposition, and accompanying in the church service setting. Includes hymn introductions, modulatory interludes, free hymn accompaniments, the organ voluntary, and the organ combined with other instruments. Designed for those interested in church music as a career.

CMUS 327 Music Business Seminar 1 Credit Includes discussions on the legal, practical and procedural problems encountered in the music business. Includes discussions on copyright; performance and mechanical licenses; and performing rights organizations. Guest speakers and field excursions are included. **CMUS 328** Jazz Ensemble Workshop 1 Credit Faculty supervised "jam sessions" designed to help performers find their own style in an improvisatory small group jazz setting. **CMUS 330** Piano Repertoire 3 Credits This course is a survey of the standard repertoire for the piano from the Baroque period to the present. Scheduled during fall semesters during odd years only (e.g., 2019, 2021, etc.) 3 Credits Piano Music from the African Diaspora This course is a survey of piano repertoire by composers from the African Diaspora from the late 19th century to the present. Scheduled during spring semesters during even years only (e.g., 2020, 2022, etc.). **CMUS 340 Vocal Diction I** 1 Credit This course is intended for those students with a concentration in vocal studies. Areas of study include English and Italian lyric diction and literature via the International Phonetic Alphabet (IPA) System. Must be taken concurrently with applied voice instruction. **Vocal Diction II** This course is intended for those students with a concentration in vocal studies. Areas of study include German and French lyric diction and literature via the International Phonetic Alphabet (IPA) System. Must be taken concurrently with applied voice instruction. *Prerequisite*: CMUS 340 with a minimum final grade of "C" Opera Workshop I 2 Credits This course presents opera/musical theatre productions through scenes and/or full productions from the various historical periods. Areas of emphasis may include ensemble as well as solo performances from the standard operatic and/or musical theatre repertoire, stage management, set design, movement, prop building, and lighting. Prerequisite: CMUS 107, CMUS 108, and CMUS 208. 2 Credits Opera Workshop II This course is a continuation of Opera Workshop I with more advanced repertoire and dramatic interpretation added to the sequence. Prerequisite: CMUS 107, CMUS 108, and CMUS 208. **Recording Studio Techniques** An introduction to recording studio hardware and software, including interface modules, processors, sound modules (samplers and synthesizers), studio wiring and networks, MIDI control, mixing consoles, and studio etiquette. Essential mixing and audio mastering techniques will be addressed through hands-on projects. Studio Production Techniques is part of a sequence of courses required for the Bachelor of Music with a concentration in Commercial composition. The purpose of this course is to prepare musicians to use professional tools for audio post-production editing and mixing. No specific mathematics or engineering training is required. Students should have a basic understanding of digital audio, MIDI, electronic music sequencing, and recording techniques. This course is offered to students with an interest in music production from a technical behind-the-scenes aspect. **CMUS 350A Production I** 2 Credits Students will record and edit MIDI and digital audio using Logic Pro computer software, and will learn modern MIDI sequencing techniques for the music, film and television industries. Students will also use various composition techniques to create and edit song forms, work with various recording musicians in a recording environment, and produce industry quality recording projects. This course provides many critical listening examples, interactive activities, and "power user" tips and tricks for using Logic Pro, which illustrate the extensive capabilities of this dynamic music production software. This course is offered to students with an interest in music production from a compositional/musical aspect. 2 Credits CMUS 350B Production II Students will learn advanced sequencing techniques in the music, film, and television industries. This course works in tandem with the Music Production I course, providing a larger knowledge-base for production in the music industry. Students will obtain instruction in the advanced theories of audio production, including audio/video sync techniques, studio and remote recording. This course is offered to students with an interest in music production from a compositional/musical aspect. **CMUS 351** Songwriting, Arranging and Recording 3 Credits Course designed for students with commercial composition concentration. It combines songwriting in an analytical workshop atmosphere with the rudiments of multi-track, hard-drive recording using ProTools (laboratory). Students will be required to produce several projects during the course of the semester. *Prerequisite*: CMUS 301 with a minimum final grade of "C". **CMUS 370 Introduction to Church Music** 1 Credit This course provides an overview of church music from biblical era to contemporary era. Music traditions of psalmody, hymnody, anthems, spirituals, gospel music, contemporary Christian and praise are studied. Scheduled during fall semesters, even years only (e.g., 2022, 2022, etc.). **CMUS 372** Hymnody 3 Credits A study of the history of hymnody, composers, tunes and textual settings. The course also includes a detailed study of common hymnals and how the hymnal is used in worship. Scheduled during spring semesters, odd years only (e.g., 2019, 2021, etc.) **Introduction to Composition CMUS 402** 1 Credit

Study of basic scoring, notation, and intermediate compositional techniques. Students are required to set up and copy selected manuscripts from various genres as a pre-requisite to creating lead sheets and writing compositions for voice and piano, choral, solo piano, chamber groupings and orchestra.

CMUS 403 Orchestration and Arranging 3 Credits

Focuses on the unique performance capabilities of the instruments of the orchestra including instrument ranges, transpositions and timbres. Study of practical scoring and arranging techniques for the orchestra, band, and choral ensembles. *Prerequisite*: CMUS 301.

CMUS 404/01 Choral Conducting and Literature 2 Credits

Rehearsal, interpretative, conducting techniques, methods and literature for choral organizations at all levels: Elementary through high school.

CMUS 404/02 Instrumental Conducting and Literature 2 Credits

Rehearsal, interpretative, conducting techniques, methods and literature for instrumental organizations at all levels: elementary through high school.

CMUS 405 Jazz Composition and Arranging 3 Credits

Methods of composing and arranging in a jazz medium with attention to the differing styles in instrumental and vocal combinations. *Prerequisite*: CMUS 301

CMUS 406 Composition 3 Credits

An analytical approach to the music of major composers. Class projects will include original compositions and improvisations by students utilizing techniques discovered in the compositional techniques of past and contemporary composers. Music technology is infused throughout the course.

CMUS 407R Senior Recital 1 Credit

The capstone public recital for the senior music major is required in partial fulfillment for the music degree. Recital will consist of diverse repertoire, representing the breadth of literature for the instrument or voice, and will be at least 50 minutes in length. Recital must be approved by the department faculty in a pre-recital hearing.

CMUS 407/408 Applied Music 1 Credit ea.

Weekly private instruction at the 400 level, for music majors and minors in the following areas of study: voice; piano; wood wind instruments; brass instruments; string instruments; percussive instruments; and organ. Voice majors or minors with limited previous voice study may be required to begin with CMUS 107C or 108C, depending on the semester of entry, Voice. Non-music majors must obtain permission from the applied instructor and will be considered on the basis of specific University ensemble needs and/or space availability.

CMUS 408R Senior Recital 1 Credit

The capstone public recital for the senior music major is required in partial fulfillment for the music degree. Recital will consist of diverse repertoire, representing the breadth of literature for the instrument or voice, and will be at least 50 minutes in length. Recital must be approved by the department faculty in a pre-recital hearing.

CMUS 417 Senior Project 1 Credit

A specialized project or research paper required in lieu of a Senior Recital. **Prerequisite**: Recommendation by the applied teacher with approval by the department chair.

CMUS 430 Piano Pedagogy I 3 Credits

This course is an introduction to the strategies and procedures for successful piano teaching, with emphases on teaching philosophy, pedagogical resources, basic technique and musicianship, learning theory, teaching elementary and intermediate piano students, and an introduction to methods and materials. Scheduled during fall semesters, **odd years only (e.g., 2012, 2014, etc.)**.

CMUS 431 Piano Pedagogy II 3 Credits

This course is a continuation of strategies and pedagogical procedures for successful piano teaching, with emphases on a continuation of methods and materials, curriculum design through sequencing of skills, solo and group teaching, the studio business plan. Scheduled during spring semesters, odd years only (e.g., 2019, 2021, etc.).

CMUS 440 Vocal Pedagogy 3 Credits

This course is intended for vocal music majors and minors who wish to enhance their understanding of the science of vocal technique. Students will learn how the vocal mechanism works. Attention will be given to the following techniques: formants, breath management, resonation, registration, vowel formation, acoustics, the aesthetics of vocal timbre, and healthy singing.

CMUS 442 Vocal Literature 3 Credits

This course presents an overview of music for solo voice. Areas of study include English, French, Italian, and German repertoire from the four major musical eras; i.e., baroque, classical, romantic and the 20th/21st centuries, including art songs, French Melodie, and German Lieder.

CMUS 448 Pre-Service Teaching 12 Credits

Supervised student teaching at an approved site. Music majors pursue in-depth ten to twelve weeks of working with students under the supervision of a state certified music teacher and a college supervisor with music education experience. Prior to the in-depth practicum, the student spends two-four weeks in observing and working with children at various grade levels in general music and band/choral/hand bell ensemble classes. Student teachers are required to attend campus-based seminars once per week and other teaching-related workshops and activities. *Prerequisite*: completion of all required major and professional education courses and successful pass on the PRAXIS examinations (general and music).

CMUS 450 Recording Studio Internship 3 Credits An internship for commercial composition students in an active recording studio, submitting regular, brief written reflections to the supervising instructor about recording equipment, techniques, and procedures used. Prerequisite: CMUS 351 with a minimum final grade of "C". **CMUS 451 Senior Composition Project** 3 Credits This "capstone" course will culminate in a senior composition project, both a CD recording and a live performance that showcases music in a variety of media in different styles composed by the student. Prerequisite: CMUS 403 with a minimum final grade of "C". **CMUS 470** Music in the African American Church 3 Credits The study of literature and performance practices found in the worship experience of African American Churches. 2 Credits **Church Music Methods** A study of church music organization and planning, program development, performance techniques and rehearsal management skills required of church musicians. 3 Credits **CMUS 472C Church Music Methods Internship** Internship for music majors with a concentration in Church Music. Internship opportunity is provided for student to function in a supervised music ministry environment. Co-requisite: CMUS 472. **CMUS 480 Independent Study** 0-6 Credits Directed study in specific subject area, a research project or a combination of the two. Designed to meet the specific and individual course needs of students in the senior year. Must be implemented in conjunction with a faculty member who oversees the agreed upon study. Prerequisite: Approval of department chair. **CPED 101or CPED 102** Physical Education 1 Credit ea. These courses develop recreational skills and abilities for current and future participation in leisure time activities and provide a rationale for a physically fit lifestyle and wellbeing **CPHI 105** Critical Thinking 3 Credits Focuses on the development of intellectual skills for all areas of study, the organization of ideas, identification of common errors in reasoning, and critical analysis of editorials, speeches and articles. **CPHI 105H** Critical Thinking 3 Credits Development of intellectual skills for all areas of study. Focuses on organization of ideas, identification of common errors in reasoning, and critical analysis of editorials, speeches and articles **CPHI 221 Introduction to Philosophy** 3 Credits Includes the basic issues studied by philosophers. Topics for discussion include the nature of freedom, the rational foundations for atheism. human existence and meaning, the nature of knowledge, and issues in aesthetics. **Ethics and Human Values CPHI 231** 3 Credits Detailed analyses of selected moral philosophers and various approaches to value theory in conjunction with specific contemporary ethical issues are examined. **CPHI 241** Philosophy of Religion 3 Credits A critical examination of selected contemporary and classical issues of religion. Topics include proofs for the existence of God, the problem of evil, the nature of religious experience, and the reliability of religious truth claims. **Business Ethics** 3 Credits Consideration of ethical questions in business practices including corporate responsibility, conflict of interest, employee rights, colonialism and imperialism, truth in advertising, environmental protection, preferential hiring, affirmative action, and Marxist versus capitalist views on economic justice. **CPHI 254 Media Ethics** 3 Credits Value questions arising in conjunction with mass media. Discussions of the pervasive influence of the media, together with the aims and restrictions that are, or ought to be, imposed on the media. Topics include the nature of various media, value assumptions in news selection and programming, minorities and the media, the influence of television on children, the rights and responsibilities of journalists, and violence and the media. **CPHI 262** Science, Technology, and Human Values 3 Credits Exploration of fundamental value questions and dilemmas associated with training and research in the sciences. Includes applications of science to technology and industry. **CPHI 262H** Science, Technology, and Human Values 3 Credits Exploration of fundamental value questions and dilemmas associated with training and research in the sciences. Covers applications of science to technology and industry. Satisfies General Education Core requirement for religion or philosophy. History of Western Philosophy The first of a two-semester survey of the major figures in western philosophy, beginning with the antecedents to Greek philosophy in Africa. CPHI 331 covers the period of origin through Greek and Medieval thought. Students may take either CPHI 331 or CPHI 332 independently or both in sequence.

CPHI 332	History of Western Philosophy	3 Credits
	y of the major figures in western philosophy, beginning with the ante d contemporary philosophers. Students may take either CPHI 331 of	
СРНІ 353	Representative Problems of Philosophy	3 Credits
	ored in more depth than that at the introductory level. Students are e	encouraged to engage in out-of-
СРНІ 362	Social and Political Philosophy	3 Credits
Examination of philosophical assumprights, and the individual and society	ptions underlying different political systems. Topics include the natu	re of social existence, freedom,
СРНІ 362Н	Social and Political Philosophy	3 Credits
or philosophy.	tions underlying different political systems. Satisfies General Educatio	
CPHI 375	Existentialism and Phenomenology	3 Credits
	COURSE DESCRIPTION	
CPHI 401/402	Off-Campus Study	3 Credits ea.
For students who wish to take course of their major program.	es at institutions other than those offered at the Atlanta University Ce	enter or to study abroad as part
CPHI 411	Islamic Philosophy	3 Credits
	l philosophical concerns of selected thinkers and schools of though ific historical figures and philosophic and religious traditions, includir	
CPHI 421	Philosophies of the African Continent	3 Credits
An examination of the diversity of a studied.	African philosophical thought. Intellectual traditions from both nor	th and Sub-Saharan Africa are
CPHI 431	African-American Philosophy	3 Credits
	entative of the African-American philosophical tradition. Insight int hilosophizing. Also emphasizes issues in social philosophy, ethics, and	
CPHI 451 - 454	Special Topics in Philosophy	3 Credits ea.
Upper-division students explore issu	es with present-day philosophical significance.	
СРНІ 482/483	Independent Study	3 Credits ea.
	pretive skills. In consultation with an instructor, upper-division stud y requires extensive reading and written work.	ents may select an appropriate
CPHI 484 - 487	Para-Curricular Study in Philosophy	3 Credits ea.
Students with approval of their advis	ors may select internships that prepare them for their prospective car	reer choices.
CPHY 102/102L	Physical Science and Laboratory	3 Credits
Basic course in physical science which space sciences, chemical processes, of	h satisfies the core science requirement for all non-science majors. Top conservation of energy, and properties of heat, electricity and light. to attend one (1) two-hour laboratory each week.	pics include concepts of motion, The laboratory is part of the
CPHY 104/104L	Introduction to Earth System Science and Laborator	y 4 Credits
system. Topics include common lar of rock strata, fundamentals of tl atmosphere, and elementary conce	nderstanding of the physical earth system – lithosphere, hydrosphofforms, identification of mineral and rock specimens, major type he hydrologic cycle, introduction to oceanography, properties expts of astronomy. Students are also required to attend one (1) two the core science requirements for all non-science majors.	es of earth movements, dating and processes in the earth's
CPHY 105	Orientation to Earth System Science	1 Credit
An introduction to the opportuniti	es, career choices, problems and curricula in the Earth System Sc	cience Program.
CPHY 106/106L	Introduction to Earth System Science II and Laboratory	4 Credits
photographs, map projections, ge studied: volcanic, flood, dry land,	topics covered in CPHY 104. Topics include isostasy, origin of neologic maps, water balance, and observational astronomy. Encoastal, earthquake, and groundwater risks. This course fulfills a concentration in science. <i>Prerequisite</i> : CPHY 104.	vironmental hazards will be
CPHY 111/111L	General and Modern Physics I and Laboratory	4 Credits
	udents who desire a basic background in physics. This course is requ	
majors. Topics include introduction t	to basic physics concepts of mechanics, heat, and sound with emphasis	s on applications in broad areas

such as chemistry and biology. Three (3) lecture hours and one (1) three-hour laboratory per week. Prerequisites: Three (3) units of high school mathematics, including algebra and trigonometry. **CPHY 112/112L** General and Modern Physics II and Laboratory 4 Credits Continuation of CPHY 111. Introduces students to basic principles in the physics of electricity, magnetism, optics, and atomic physics. Three (3) lecture hours and one (1) three-hour laboratory per week. *Prerequisite*: CPHY 111 CPHY 121/121L Physics I: Mechanics and Laboratory 3 Credits + 1 Credit An introductory physics course for students with a background in basic calculus. Topics include resolution of forces, static equilibrium, laws of conservation of momentum and energy, rectilinear motion at constant acceleration, rotational motion, and oscillatory motion, CPHY 121 and CPHY 121L are separate courses. Three (3) lecture hours (3 credits) and one (1) three-hour laboratory (1 credit) per week. Preor Co-requisite: CMAT 111. **Physics II: Electricity and Magnetism and Laboratory** 3 Credits + 1 Credit CPHY 122/122L Continuation of CPHY 121. Students explore electromagnetic forces, induction, static and time-dependent electromagnetic fields, electric circuits, fields and potentials, and electromagnetic waves. CPHY 122 and CPHY 122L are separate courses. Three (3) lecture hours (3) credits) and one (1) three-hour laboratory (1 credit) per week. Prerequisite: CPHY 121. Pre- or Co-requisite: CMAT 112. CPHY 123/123L Physics III: Optics and Modern Physics and Laboratory 3 Credits + 1 Credit A continuation of CPHY 121 and CPHY 122. Topics include wave propagation, sound, heat, and principles of thermodynamics, geometric optics, physical optics, atomic physics and nuclear physics. CPHY 123 and CPHY 123L are separate courses. Three (3) lecture hours (3) credits) per week, and one (1) three-hour (1 credit) laboratory per week. Prerequisite: CPHY 122. **Modern Physics CPHY 211** 3 Credits Basic study of atomic and nuclear physics, with emphasis on the experimental foundation of these subjects. Topics include introduction to the theory of relativity, atomic theory of matter, Rutherford scattering, photoelectric effect, production and characteristics of x-rays, lasers, introductory quantum physics, atomic spectra, radio activity, elementary particles, and particle accelerators. Prerequisite: CPHY 123. **CPHY 301 Co-Operative Education Program** 3 Credits Academic credit for physics majors working during the academic year in approved industry positions. To receive credit for cooperative experiences, students must secure approval from the department chair, who will arrange internships with project monitors at specific work sites. Students who do not follow this procedure will not receive cooperative academic credit. **CPHY 312 Optics** 4 Credits Study of the electromagnetic theory of light and the interactions of light and matter. Topics include geometrical optics and optical instrumentation, physical optics (diffraction and interference effects), spectroscopy and interferometry. Certain topics in modern optics, such as holography and lasers, also are discussed. Three (3) one-hour lectures and one (1) three-hour laboratory per week. *Prerequisite*: **CPHY 123 CPHY 321 Mathematical Physics I** 3 Credits Application of mathematical techniques to physical systems. Course surveys basic concepts of differential and integral calculus. Topics include infinite sequences and series, systems of linear determinants and matrices, and special functions. The course emphasizes numerical methods and application to physics and chemistry. Three (3) lecture hours discussion and problem sessions per week. Prerequisite: CPHY **CPHY 322 Mathematical Physics II** 3 Credits Continuation of CPHY 321. Topics include partial differentiation, multiple integral, first- and second-order ordinary differential equations, and numerical methods of solving differential equations, vector algebra, vector analysis, probability, and statistics. *Prerequisite*: CPHY **CPHY 331 Classical Mechanics** 3 Credits A rigorous development of the concepts of classical physics and the mathematical techniques used therein. Students study the common mathematical formalism in vector analysis, hydrodynamics, and electromagnetism. Other topics include Galilean relativity, kinematics and dynamics of particle systems, rigid bodies, oscillations, wave motion, and Lagrangian mechanics. Prerequisite: CPHY 123 3 Credits **CPHY 332 Electromagnetic Theory** Physical and mathematical foundations of electromagnetism. Students explore electrostatic fields and potentials, electric fields around conductors, electric current, fields of moving charges, magnetic fields, and electromagnetic induction. Maxwell's equations, alternating current circuits, electric fields in matter, free oscillations in systems with many degrees of freedom, forced oscillations, traveling waves, modulations, pulse and wave packets, reflection, polarization, and interference and diffraction. Prerequisite: CPHY 123. **Advanced Physics Laboratory** 3 Credits Consists of introduction to classical experiments of physics such as the measurement of the charge to mass ratio of the electron, Planck's constant, Milliken oil drop experiment, and others. Advanced laboratory techniques and data analysis are also covered. Prerequisite: CPHY 123 **CPHY 350 Physics of Earth Systems** 3 Credits Fundamental principles of radiation, absorption and emission of radiation, solar and terrestrial radiation, radiative transfer and heating rates, surface and global energy balances, role of greenhouse gases, aerosols and clouds in climate change Weather Analysis and Prediction 4 Credits Provides an introduction to atmospheric structure and synoptic meteorology. Laboratory exercises include weather analysis and

forecasting.

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СРНҮ 355	Atmospheric Thermodynamics	3 Credits
	ate, first and second laws of thermodynamics, thermodynamics of d mic atmospheric stability. Prerequisites : CMAT 211, and CPHY 121.	ry and moist atmospheres,
CPHY 357	Atmospheric Aerosols	4 Credits
spatial distribution of aerosol particles, th	ol particles, natural and anthropogenic sources, techniques for detecti e role of particles in atmospheric chemistry, air pollution and cloud feric visibility. Topics also include radiative effects and implication	ormation, as well as optical
CPHY 360	Numerical Methods in Earth System Science	3 Credits
	n be represented in form as ordinary and partial differential equal the physical aspects of geoscientific phenomena using mather CPHY 121.	
CPHY 365	Dynamics of the Earth System	3 Credits
	ressures coordinates; geostropic and gradient flow; thermal wind; to	
CPHY 370	Earth System Measurements	3 Credits
	cal and atmospheric instruments, static and dynamic performance of ement systems. <i>Prerequisites</i> : CCIS 103, CMAT 211, and CPHY 121.	characteristics, use of data
CPHY 375	Instrumentation Electronics	4 Credits
J	t instruments, electronics mathematics, DC and AC circuit analysis, r state electronics, components and transducers. Prerequisites : CPHY	
CPHY 411	Thermodynamics and Statistical Mechanics	3 Credits
	nermodynamics and its relation to statistical mechanics. Topics income and their application to simple systems. <i>Prerequisite</i> : CPHY 321	
CPHY 412	Introduction to Quantum Mechanics	3 Credits
	berg's Uncertainty Principle, and Schrodinger's Wave Equation, wit tomic spectra, first-order perturbation theory, spin orbit interac	tion, and particle theory.
CPHY 421	Undergraduate Research I	3 Credits
	of experimental and theoretical research in physics. Experiments expendent reading and investigation. Individual schedules are arrang and experience.	
CPHY 422	Undergraduate Research II	3 Credits
techniques and require considerable inde	of experimental and theoretical research in physics. Experiments expendent reading and investigation. Individual schedules are arranged and experience. Theoretical and computational research requires strong	ged at the beginning of the
CPHY 441	Internship I	3 Credits
academic credit for internship, students	ts during the summer months. Interns may work in Atlanta or in a must secure approval from the department chair, who will arrang who do not follow this procedure will not receive internship academic	e internships with project
CPHY 442	Internship II	3 Credits
academic credit for internship, students	ts during the summer months. Interns may work in Atlanta or in a must secure approval from the department chair, who will arrang who do not follow this procedure will not receive internship academic	e internships with project
CPHY 445	Introduction to Micrometeorology	4 Credits
Energy budget and radiation balance near	the surface; air temperature, humidity and wind distribution in the at undary layers, momentum and heat exchanges with homogeneous s	
CPHY 450	Radiative Transfer and Passive Remote Sensing	3 Credits
	on. Emphasis on solar radiation at the top of the atmosphere, scatter ransfer in the atmosphere. Measurement of scattered sunlight or	
	ared or microwave sensors. <i>Prerequisite</i> : CPHY 123.	
	ared or microwave sensors. <i>Prerequisite</i> : CPHY 123. Active Remote Sensing	4 Credits
atmosphere using ultraviolet, visible, infra CPHY 452 Principles of meteorology sensors; rada		odar and lidar equations,

Basic structure of the planet; detailed structure of the atmosphere; how the present atmosphere evolved from the primordial atmosphere; what happens to solar radiation as it passes through the atmosphere; the presence of oxygen and its relation to ozone and living systems; chemical equilibrium and rates of reactions; differences between reactions with rates that depend primarily upon temperature versus sunlight; Chapman's theory of ozone formation in the stratosphere; improvements to the simple model; the role of aerosols on chemical change; the role of chlorofluorocarbons on the "ozone hole"; chemical cycles in the lower atmosphere; urban photochemical smog and acidrain; chemistry on other planets. *Prerequisites*: CMAT 111, and CCHE 112.

CPHY 470 Earth System Modeling 4 Credits

Application of numerical modeling techniques to the earth system; use of computer modules representative of earth system components presented as hands-on laboratory exercises, including impact of basic energy exchanges processes on temperature and evolution of horizontal motions in the atmosphere; satellite data. *Prerequisite*: CPHY 360.

CPHY 501 Classical Mechanics 3 Credits

Dynamics of particles and rigid bodies; the Lagrangian and Hamiltonian formulation; Poisson brackets, Hamilton-Jacobi Theory, classical scattering theory, theory of small oscillation.

CPHY 503 Electrodynamics 3 Credits

Maxwell's equations and applications; electrostatics, dielectrics, magnetostatics, scalar and vector potentials; conservation laws; multiple moments and multiple radiation; dispersion; special relativity.

CPHY 504 Modern Optics 3 Credits

Concepts of Modern Optics starting with Maxwell's equations including topics such as reflection and refraction, wave propagation in anisotropic media diffraction, interference, lasers, holography, and the theory of optical wave-guides. *Prerequisite*: CPHY 322.

CPHY 515 Quantum Mechanics I 3 Credits

Non-relativistic quantum mechanics; representation of dynamical variables as operators or matrices; theory of angular momentum; motion in a centrally symmetric field; solution of three-dimensional problems; simple harmonic oscillator; hydrogen atom.

CPHY 516 Quantum Mechanics II 3 Credits

Continuation of CPHY 515. First order and second order perturbation theories; identical particles and spin; theory of classic collisions; semi-classical treatment of radiation; introduction to relativistic quantum mechanics.

CPHY 520 Thermodynamics and Statistical Mechanics 3 Credits

Review of first, second, and third laws of thermodynamics; irreversible processes; microcanonical, canonical and grand canonical ensembles; the density matrix; Bose and Fermi systems. Kinetic theory and the Boltzmann transport equation.

CPHY 531 Mathematical Methods I 3 Credits ea.

Vector analysis, orthogonal curvilinear coordinates; the calculus of variations; functions of a complex variable; ordinary and partial differential equations.

CPHY 532 Mathematical Methods II 3 Credits

Continuation of CPHY 531. Hypergeometric functions; orthogonal functions; integral transform methods; Green's functions and integral equations

CPHY 540 Solid State Physics 3 Credits

Brillouin zone treatment of metals, semiconductors and insulators; approximation methods of determining properties of real solids; comparison between theory and experiment for selected solid state phenomena.

CPHY 545 Atomic and Nuclear Physics 3 Credits

Quantum theory of atomic and nuclear processes. Hartee-Fock approximation, fine and hyperfine structure, atomic collision; nucleon-nucleon potentials and scattering, shell and collective models, correlation in nuclear matter.

CPHY 550 Physics of Fluids 3 Credits

Basic processes in liquids, gases, magneto-fluids and plasmas; Navier-Stokes equation, non-Newtonian fluids, compressible and incompressible flow, shock structure, kinetic theory, classical transport, turbulence.

CPHY 565 Physics of Surfaces 3 Credits

Fundamentals of physical methods for studying the structures, vibrational and electronic properties of solid surfaces, including the verification of principles in laboratory experiments.

CPHY 570 Radiation Physics 3 Credits

Radioactivity, interaction of electromagnetic radiation with matter, radiation quantities and units; x-rays, gamma rays, neutron activation, interaction of charged particles with matter, stopping power, range-energy relations, counting statistics shielding, dosimetry, waste disposal, critical prevention, radiation biology and ecology.

CPHY 585 Applied Quantum Mechanics I 3 Credits

Application of quantum mechanical principles to the solution of selected problems in atomic, molecular, nuclear and solid-state physics. *Prerequisite:* CPHY 515, and CPHY 516.

CPHY 586 Applied Quantum Mechanics II 3 Credits

Application of quantum mechanical principles to the solution of selected problems in atomic, molecular, nuclear and solid-state physics. **Prerequisite:** CPHY 515, and CPHY 516. **IS CPHY 585 A PRE-REQUISITE????**

CPHY 601 Departmental Seminar I 0 Credit

Required of all graduate students in the D	epartment.		
СРНҮ 602	Departmental Seminar II	0 Credit	
Required of all graduate students in the Department.			
СРНҮ 603	Thesis Research or Non-Thesis Research	1-6 Credits	
Designed to assist students in the developroject consultation.	opment, research, and writing of the thesis or non-thesis research	project; including research	
CPHY 604	Thesis Research or Non-Thesis Research Project Consultation	1-6 Credits	
Designed for students who are in the final stage of thesis writing or non-thesis research project writing, which requires minimal supervision and assistance.			
СРНҮ 605	Optical Fiber Measurements I	3 Credits	
	needed to master the basic concepts and laboratory techniques of optical communications and sensors, using both multimode and s		
СРНҮ 606	Modern Optical Measurements II	3 Credits	
	nents I with emphasis on more complex measurements and cali cation sources and detectors and communication systems.	bration on topics such as	
СРНҮ 607	Advanced Optics	3 Credits	
Surveys topics in advanced optics such a dielectric media. <i>Prerequisite</i> : CPHY 504.	is electromagnetic wave scattering and propagation in unperturbed	d, perturbed and nonlinear	
СРНҮ 610	Philosophy of Science	3 Credits	
	, and methodological presuppositions underlying physical theory an scientific knowledge; social implications of scientific research.	d experiment; problems of	
СРНҮ 615	Special Topics in Physics	3 Credits	
Special topics of current interest such astrophysics, etc.	as general relativity, quantum field theory, scattering theory, el	lementary particle theory,	
СРНУ 620	Introduction to Atmospheric Sciences	3 Credits	
	troscopy of atomic and molecular species; photodynamics and phot ding infrared, atomic emissions, and atomic absorption.	okinetics of photochemical	
CPSC 106	Politics and Global Issues	3 Credits	
This course is offered as part of the General Education Core. The course introduces students to the discipline of Political Science and surveys the various fields of Political Science and comparative politics, political theory, and international relations. The course emphasizes training students to use technology and the learning skills of critical thinking, writing, and speaking.			
CPSC 219	American Government and Politics	3 Credits	
This is an introductory course providing process that shapes public participation a	understanding of the institutions and ideas basic to the American part governmental decision.	political experience and the	
CPSC 220	Introduction to Public Policy	3 Credits	
This course offers an exploration of three major policy areas: health, income inequality (poverty), and human resource development. I emphasizes effects of policy programs on a variety of groups and the overall costs and benefits of policies. Students explore topics through computer-game simulation, graphs, aggregate data, and conventional case-study readings.			
CPSC 221	State and Local Government	3 Credits	
	ate and local governmental institutions, the tools of political participa the role of state and local governments play in the federal system.	tion as practiced by various	
CPSC 309	Introduction to Urban Planning	3 Credits	
	he history, theories, and activities of urban planning. Students discuparticularly as these relate to planning for human resource developm		
CPSC 313	Urban Politics and Policy	3 Credits	
	the focus of this course with primary focus on the use of power and public policies and to the conditions and politics of minorities in urb		
CPSC 315	Comparative Politics	3 Credits	
Students are introduced to the subfield of the way they function, and the uniformities	comparative politics and the use of key analytic concepts to general s and variations in political systems.	ize about political systems,	
CPSC 319	Electoral Politics	3 Credits	
	ions, political parties, electoral methods, and the practical aspects of political questionnaires and polling and examine the platforms of pol		

CPSC 322 International Relations 3 Credits This course introduces students to the basic concepts of international relations, including foreign policy decision-making, conflict, deterrence, interdependence, coercive diplomacy, and international systems. Special attention is given to major regional and global wars, the dynamics of interwar years, the Cold War era, the politics of international economics, and the influence of major nongovernmental **CPSC 336 Current World Problems** 3 Credits Students are presented lectures on contemporary world issues, particularly as they affect the United States. Focusing on their individual areas of interest, students conduct extensive research on policies, problems, and solutions and lead class discussions on their findings. Prerequisite: CPSC 219. **CPSC 337** Statistics I 3 Credits Introduction to descriptive statistics, including associational measures and probability. *Prerequisite*: General Education mathematics requirements. **CPSC 338** Statistics II 3 Credits This course is an introduction to inferential statistics, hypothesis testing, simple use of analysis of variance, and correlation coefficients. Prerequisite: CPSC 337. **CPSC 352 American Foreign Policy** 3 Credits Students engage in an analysis of the formulation and execution of American foreign policy and its purposes and trends. The topics covered include historical evolution of U.S. foreign policy, economic and political factors, national and international determinants, instruments of policy execution, and major problems faced by recent presidential administrations. Political Theory I 3 Credits Major political ideas, from Machiavelli to pre-Marxian socialism, are covered throughout this course, with a special focus on the concepts of power, legitimacy, authority, liberty, and equality. Political Theory II 3 Credits Major political ideas of the nineteenth and twentieth centuries are examined, including modern notions of democracy, socialism, communism, liberalism, and nationalism. **CPSC 371 Science and Public Policy** 3 Credits This course offers a survey of the use of science and the scientific method as applied to public policy. Government institutions involved in scientific studies are examined, and the role of expertise in policy making and the possible social effects of scientific discoveries are considered. **CPSC 372 Comparative Public Policy** 3 Credits The difference in the scope and substance of major public policies affecting the United States and other countries, principally Western European, are examined in this course. Students explore the "how, why, and what" of government action in policy areas such as health, education, taxation, housing, transportation, and income maintenance. **CPSC 374 Constitutional Law** 3 Credits This course focuses on an analysis of the U.S. Constitution using the case study method. Among topics covered are the Supreme Court, federal jurisdiction, commerce power, taxation, and spending powers. This course is highly recommended for students planning to attend law school. **CPSC 375 Political and Civil Rights** 3 Credits Political and personal freedoms under the Bill of Rights and the Fourteenth Amendment to the U.S. Constitution are examined. Sound analysis of the principles underlying civil and human rights is stressed. This course is especially recommended for students planning to attend law school. *Prerequisite*: CPSC 374 or permission of the instructor. **Scope and Methods of Research** 3 Credits This course provides a formal introduction to concepts, theories and major subfields of political science, and essential social science research method and skills students will need to conduct qualitative and normative research on political and social issues. Students learn how to select and apply appropriate social science research techniques methods to a particular problem. Course limited to first-semester juniors and seniors. **CPSC 394 Politics in Contemporary Thought** 3 Credits Review of current trends in modern political science. Students research the most recent research in the fields of public policy, historical and behavioral methods, political theory, international affairs, and American politics. **Politics of Africa** 3 Credits This course provides an overview of government and politics of modern Africa. It examines the ongoing dynamic relationship between modern and traditional political beliefs and institutions and identifies major issues, problems, and proposed solutions. **CPSC 479 Senior Thesis** 3 Credits The senior, in consultation with her/his advisor, selects a thesis topic, and devotes a full semester to research design, and implementation, the results of which are submitted to the advisor and the Department in the form of a Senior Thesis written report and oral presentation. Prerequisites: CPSC 361, CPSC 362, and CPSC 387. **CPSC 480** 3 Credits **Independent Study**

Students pursue a program of selected reading, research, and writing and engage in a critical examination of one or more selected topics under the guidance of an instructor. *Prerequisite*: Permission of the department chair required.

CPSC 483 Independent Study 3 Credits

Students pursue a program of selected reading, research, and writing and engage in a critical examination of one or more selected topics under the guidance of an instructor. *Prerequisite*: Permission of the department chair required.

CPSC 484 Internship 3 Credits

Varied internship placement programs are made available to juniors and seniors majoring in Political Science at all levels of government and in public interest organizations. Activities include attending seminars and completing research papers. *Prerequisite*: Approval by the department chair required.

CPSC 486 Internship 3 Credits

Varied internship placement programs are made available to juniors and seniors majoring in Political Science at all levels of government and in public interest organizations. Activities include attending seminars and completing research papers. *Prerequisite*: Approval by the department chair required.

CPSC 487 Internship 3 Credits

Varied internship placement programs are made available to juniors and seniors majoring in Political Science at all levels of government and in public interest organizations. Activities include attending seminars and completing research papers. *Prerequisite*: Approval by the department chair required.

CPSC 490 Washington Internship in Public Policy 3 Credits

This is an opportunity for a one-semester internship placement in a Washington, D.C.-based agency or organization. Students attend seminars, work in a Congressional office, and produce a significant research paper documenting experiences and new learning. The internship is open to students in all majors who have outstanding academic records and are interested in careers in the public sector or current issues confronting the disadvantaged.

CPSY 211 General Psychology 3 Credits

Psychology is defined as the scientific study of mental processes and behavior. This course is designed to give the student an overview of the field in terms of its evolution, theories and theorists (e.g., psychoanalytic, behavioral, humanistic, cognitive, etc.) specialties in the field (e.g., Clinical, Experimental, Engineering, Forensics, Industrial/Organizational, Physiological, School, Social, etc.,), and research methods (e.g., data collection, data analysis, research design). General Psychology provides the foundation for more advanced study in psychology.

CPSY 211H General Psychology 3 Credits

Survey of the history, basic principles, and major areas of research in psychology, including contributions made by African Americans.

CPSY 218 Human Growth and Development 3 Credits

This course discusses issues, theories, and research on the cognitive, social, personality, and physical development of humans throughout the lifespan from a behavioral analytic perspective with emphasis on the influences of gender and culture.

CPSY 220 Careers in Psychology 3 Credits

The course is designed to provide the students with opportunities to integrate their knowledge of Psychology with current and professional issues in the field. Additionally; the course will focus on preparation for careers in the field of psychology including an emphasis on preparation for graduate study and careers beyond college. Class periods will include lectures, discussions, and the use of multi-media materials.

CPSY 301 Educational Psychology 3 Credits

Educational Psychology is described as the scientific study of human learning in educational settings. Topics discussed in this class include: Classroom management, curriculum development, educational intervention strategies, educational technology, gifted students, instructional design, learning styles, organizational learning, school culture, special education students, teaching styles, testing, etc. The course is taught from two perspectives, namely teachers and students. For example, for prospective teachers it provides an overview of the basic principles, theories, and techniques from a psychological perspective as related to learning; and for students the course is designed to help students identify common problems teachers confront in the classroom and to then apply course material to develop a plan to resolve typical problems in classroom situations.

CPSY 313 Statistics I 3 Credits

This course introduces students to descriptive statistics and the basic components of experimental design. Students are introduced to measures of central tendency and variation, making and interpreting graphs, and organizing data. It also covers probability and introduces students to one sample T-Test and Chi-Square. *Prerequisites*: CMAT 105, and CPSY 211.

CPSY 314 Statistics II 3 Credits

Students are introduced to inferential statistics, non-parametric statistics, and hypothesis testing in this course. Students learn how to use a variety of statistical tests, both parametric and nonparametric, for example, regression analysis, T-Tests, complex Chi-Square, independent and repeated analysis of variance tests, and Mann-Whitney U and Wilcox signed-ranks tests. *Prerequisites*: CPSY 211, CPSY 313, and CMAT 105.

CPSY 315 Social Psychology 3 Credits

Social Psychology is described as the scientific study of the effects of both the individual on society (e.g., cognitions, perceptions, attitudes, social and personality characteristics, etc..) and society on the individual (e.g., social norms, stereotypes, prejudice, discrimination, social influences—compliance, obedience, conformity, etc.). The course will: (1) give students the opportunity to acquire a basic awareness of this subfield in psychology, that is, theories and research, (2) allow students to gain experience in the application of the principles of Social

Psychology, and (3) enable students to develop an empirically sound research proposal under the guidance of the instructor. *Prerequisite*: CPSY 211, and CPSY 313.

CPSY 316 Introduction to Psychological Testing 3 Credits

This course is designed to help foster an appreciation of theory and practical applications regarding psychological tests. In addition, students will learn about the basic types of tests used in schools, forensics, as well as medical and clinical settings. The construction, standardization, reliability and validity, scoring, administration, use, and interpretation of group and individual psychological tests are topics discussed in the class. *Prerequisites*: CPSY 211, and CPSY 313.

CPSY 318 Industrial/Organizational Psychology 3 Credits

Industrial/Organizational Psychology is also referred to as Applied Psychology. It is the subfield of psychology that focuses on behavior in the workplace. For example, topics discussed in the class include: Employee behavior, motivation, performance, compensation, leadership, management systems, job satisfaction, personnel recruitment and selection, organizational effectiveness, organizational culture, professional development and training, how to manage change, etc. *Prerequisites*: CPSY 211, and CPSY 313.

CPSY 320 Social and Personality Development 3 Credits

The Social and Personality course is a subfield of Social Psychology and is designed to cover theories of social and personality development from conception through adolescence. Classic theories and research as well as modern theories in the field will be examined. Different aspects or influences on a person's social and personality development will be discussed (e.g., emotions, attachments, achievement, sex differences and gender roles, altruism, aggression, cognitive and moral development, individuality, culture, environment, family, peers, school, television, etc.). *Prerequisite*: CPSY 211.

CPSY 330 African-Centered Psychology 3 Credits

This course provides a thorough overview of topics that go beyond western-oriented approaches to psychology. It will provide students with information about the major approaches to the psychology of African people with particular emphasis on the experiences of African Americans. The Afrocentric and Eurocentric approaches to the understanding of African people will be examined extensively. Theoretical papers, research, and philosophical discussions about what Black/African Psychology is, how it should be studied, and how it can be utilized as a tool for empowerment and psychological liberation are also considered. *Prerequisite*: CPSY 211.

CPSY 340 Leadership in Psychology 3 Credits

This course is designed to provide students with an overview of the content domain of Leadership in Psychology. This course will also provide an overview of how understanding leadership plays a role in many areas. Students will be able to understand the interrelations among the content domains discussed, be able to apply concepts across the domains and recognize underlying themes. Weekly topics will be approached from both theoretical and applied perspectives.

CPSY 358 Human Sexuality 3 Credits

Human Sexuality examines the theoretical aspects, current practices and future research directions of sexuality. It also serves as an exposure agent in deciphering commonly held beliefs about sexuality. Through an empirical lens, this course provides a forum for discussing issues relevant to interpersonal and intimate relationships. Historical and different cultural views of sexuality, along with biological, social, religious, ethical, legal and personal issues on sexual expressions, perceptions, cognitions and attitudes are also explored. Students are also given an opportunity to engage in an assigned research project.

CPSY 371 Experimental Psychology 3 Credits

Experimental Psychology is used to help students acquire skills in the use of the scientific method, investigative methods, data collection and data analysis. Students learn about experimental, correlational, and quasi-experimental research designs. In addition, they will learn how to: (1) differentiate between scientific and non-scientific research methods, (2) identify different types of research designs, and (2) implement different research designs in the laboratory. Students must enroll in the Experimental Psychology Lab at the same time that they enroll in this course. *Prerequisites*: CPSY 211, and CPSY 313.

CPSY 371L Experimental Psychology Laboratory 1 Credit

The Experimental Psychology Lab is used to enable students to apply the knowledge they obtained in the Experimental Psychology course. It provides a structured research setting in which students are guided through the research process by the instructor. Students will be able to collect and analyze data in a variety of ways in a series of assigned experiments.

CPSY 372 Experimental Psychology 3 Credits

Experimental design, qualitative research methods. Students acquire skills in the use of the scientific, investigative methods involving qualitative inquiry and data collection and analysis.

CPSY 377 History and Systems of Psychology 3 Credits

This course is essentially the history of psychology. It presents information on the philosophical, scientific, social, and religious antecedents that led to the development of Psychology as an independent, scientific field of study. The evolution of the different paradigms in the field at different times (e.g., structuralism, functionalism, gestalt, psychoanalytic, behavioral, cognitive, humanistic, etc.) are examined in detail. That is, classic and modern theories and theories will be explored. Individuals who made significant contributions to the field will be examined as well. Students are also introduced to the contributions of individuals from different cultures and women to the field of psychology. *Prerequisite*: CPSY 211.

CPSY 385 Abnormal Psychology 3 Credits

This course introduces the student to the scientific study of psychopathology, including history, demography, etiology, diagnosis, symptoms, and treatment. It is essentially an undergraduate's overview of Clinical Psychology. Students are introduced to research and factual knowledge in the area of abnormal psychology, especially diagnosis (e.g., DSM) and treatment (e.g., psychoanalytic, behavioral, cognitive, humanistic, etc.). In addition, students will be able to: (1) identify common flaws in psychological research and practice, (2) understand ethical and legal considerations in the practice of psychology, and (3) assess the validity and reliability of psychological sources.

This class also looks at relatively new content areas in the field such as the impact of culture, gender, and race on abnormal behavior. **Prerequisite**: CPSY 211.

CPSY 390 Forensic Psychology 3 Credits

This course is a study of the psychological theories and research that address legal issues, and the role psychologists play in the criminal justice system. This course gives an overview of services provided by psychologists, such as expert witnessing, criminal profiling, trial consulting, legal decision making on child custody, jury selection, and other issues. Coverage will include the assessment and therapeutic services provided to individuals in forensic settings with suspected deviant behaviors such as drug abuse, mental illness, suicide, and sexual deviance. Also covered are the ethical issues confronted by psychologists in the criminal justice system.

CPSY 410 Organizational Behavior 3 Credits

Organizational Behavior is a subfield in the area of Industrial/Organizational Psychology and also has its roots in the area of Social Psychology (e.g., group dynamics). This course is designed to introduce the student to the many different ways that individuals, groups and structures in the organization impact the behavior in the work place as well as the effectiveness of the organization and the employees. Different theories are presented to help the student understand organizational development, management, and performance. *Prerequisite*: CPSY 211.

CPSY 413 Learning 3 Credits

The Learning course presents information about the classic and current theories and research on the processes of learning and memory. Topics examined include: Instinctive (i.e., emitted) and learned (i.e., elicited) behaviors, classical and operant conditioning, reinforcement and punishment, discrimination and generalization, as well as social, observational, and insight learning, and the various stages of the human memory system. *Prerequisite*: CPSY 211.

CPSY 415 Physiological Psychology 3 Credits

This course is designed to introduce the student to the scientific study of the physiological aspects of human behavior, with emphasis on neurological structure and function. Major topics include the basic structure and function of neurons and the nervous system as well as the physiological basis of eating and drinking, sexual behavior, sleep and dreaming, and drug abuse. *Prerequisites*: CPSY 211, and CBIO 111.

CPSY 417 Independent Research 3 Credits

Independent Research is the course that is used to provide the student with guidance through the implementation of the scientific method (i.e., conducting research) under the tutelage of the instructor; that is, application of knowledge learned. Students work on individual or group projects as specified and agreed upon by both the student and instructor. A student could also be given an opportunity to work on research that the professor is already engaged. Normally the culmination of the research will result in an oral or poster presentation at a local, state, regional, national or international conference, and/or a publication. Independent Research can be taken twice for a total of six (6) credit hours. Time and place for the course will be provided from the instructor. *Prerequisites*: CPSY 211, CPSY 313, CPSY 314, CPSY 371, and permission of the instructor.

CPSY 418 Senior Seminar 3 Credits

This course provides the students with opportunities to integrate their knowledge of psychology with current and professional issues in the field. Diverse topics in psychology, such as job opportunities, test preparation, graduate school opportunities, and current events with psychological implications are also explored. Students will be guided through the process for graduation, preparations for careers in the field of psychology or related fields, job placement, and/or professional schools. *Prerequisites*: CPSY 211 and senior standing (at least 88 credits completed).

CPSY 419 Behavior Genetics 3 Credits

Behavior Genetics is an interdisciplinary science involving psychology, statistics, genetics, biology, etc. In this course students will learn about the influence of genetics on behavior. They will study genetic (and therefore non-genetic) influences and contributions to individual and group differences relating to psychological phenomenon including personality, psychopathology, intelligence, addiction, language, learning, sexuality, and related medical conditions. *Prerequisite*: CPSY 211.

CPSY 420 Special Topics in Psychology 3 Credits

Special Topics is the course used by faculty members in the Department to explore their interests or the interests of their students in the classroom. Faculty may also decide to present a course based on his/her area of expertise (e.g., Forensics, Social and Personality Development, African Centered Psychology, Psychopharmacology, etc.) or a specific need of the students (e.g., APA writing style). This course could serve as a psychology elective for majors and as a general elective for all other majors. As long as the content of the course differs, there is no limit on the number of times a student can take the course for credit since majors are required to have five psychology electives. *Prerequisite*: CPSY 211.

CPSY 421 Psychochemistry 3 Credits

Psychochemistry is a science that examines the relationship between chemicals, behavior and psychological processes. It is the study of the influence of chemistry on behavior. In this course students will study and learn neurochemical, pharmacological, and endocrinological changes affecting or accompanying emotional, motivational, and learned behaviors. *Prerequisite*: CPSY 415.

CPSY 480 Independent Study 3 Credits

This course is developed to provide students with an opportunity to individualize their plan of study. Independent Study is done in consultation with a supervising faculty member, and the student is required to follow detailed plans of self-directed study on topics of the students' choice. *Prerequisite*: Permission of the instructor.

CPSY 483 Independent Study 3 Credits

This course can be taken after the student has successfully completed CPSY 480. It is developed to provide students with an opportunity to individualize their plan of study. Independent Study is done in consultation with a supervising faculty member, and the student is

required to follow detailed plans of self-directed study on topics of the students' choice. *Prerequisites*: CPSY 480 and permission of the instructor.

CPSY 488 Internship 3 Credits

This is an experiential learning course. It provides the student with a semester of firsthand experience working in a psychological setting that would provide them with practical experience in the subfield of psychology in which they are interested. Interns work at least three (3) hours each week under the direct supervision of a professional within a designated agency (e.g., school, mental health facility, research center, private practice, hospital, business, etc.) and a faculty member of the Department of Psychology; students must complete at least sixty (60) hours in the field. Students are placed in the Internship by the faculty member and are expected to obtain the evaluation from the supervisor as well as return their evaluations of the site to the faculty member. Both forms are provided by the instructor of the course. Students are also exposed to ethical practices in the field and required to make a formal presentation of their work to their peers and instructor which will be evaluated by the instructor. This course is required for its majors and also satisfies the University-wide service requirement. *Prerequisites*: CPSY 211 and junior or senior standing.

CPSY 491 Internship 3 Credits

This course can be taken after the student has successfully completed CPSY 488. This is an experiential learning course. It provides the student with a semester of firsthand experience working in a psychological setting that would provide them with practical experience in the subfield of psychology in which they are interested. Interns work at least three (3) hours each week under the direct supervision of a professional within a designated agency (e.g., school, mental health facility, research center, private practice, hospital, business, etc.) and a faculty member of the department of Psychology; students must complete at least sixty (60) hours in the field. Students are placed in the Internship by the faculty member and are expected to obtain the evaluation from the supervisor as well as return their evaluations of the site to the faculty member. Both forms are provided by the instructor of the course. Students are also exposed to ethical practices in the field and required to make a formal presentation of their work to their peers and instructor which will be evaluated by the instructor. This course is required for its majors and also satisfies the University-wide service requirement. *Prerequisites*: CPSY 211, CPSY 488, and junior or senior standing.

CPSY 492 Cooperative Education Experience 3 Credits

This course presents an opportunity for students to work in a psychological agency in order to acquire practical experience in psychological work and a better understanding of human relations. Students design their cooperative experience in collaboration with a sponsoring agency and University Cooperative Education personnel, ensuring that the proposed experience parallels and enhances their academic studies. *Prerequisites*: CPSY 211 and approval by the department chair.

CPSY 495 Cooperative Education Experience 3 Credits

This course can be taken after the student has successfully completed CPSY 492. This course provides an opportunity for students to work in a psychological agency in order to acquire practical experience in psychological work and a better understanding of human relations. Students design their cooperative experience in collaboration with a sponsoring agency and University Cooperative Education personnel, ensuring that the proposed experience parallels and enhances their academic studies. *Prerequisites*: CPSY 211, CPSY 492, and approval by the department chair.

 CREL 101
 The Biblical Heritage
 3 Credits

 The study of the literature of the Bible and its influence on the shaping of Western culture. Modern biblical scholarship examines selected

The study of the literature of the Bible and its influence on the shaping of Western culture. Modern biblical scholarship examines selected readings from the Old and New Testaments noting their contributions to the understanding of human existence.

CREL 103 African-American Religious Experiences I 3 Credits

Provides analysis of the origin, development and social significance of African-American religious beliefs and practices from a historical perspective.

CREL 211 Introduction to Religious Studies 3 Credits

An introduction to the study of religion in a variety of contexts: historical, social, psychological, scientific, philosophical, artistic, and literary. Readings include representative works from the past and present.

CREL 241 American Religious Tradition I 3 Credits

COURSE DESCRIPTION

CREL 242 American Religious Tradition II 3 Credits

COURSE DESCRIPTION

CREL 250 Comparative Religion 3 Credits

Course offers a comparative survey of selected religious traditions from the East and West, including traditional African religions, Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam.

CREL 251 Religious Ethics 3 Credits

Examines major ethical issues confronting contemporary society and considers appropriate ethical responses to issues from a religious perspective. Topics include sexual ethics, abortion, racism, sexism, the ethics of war (especially nuclear war), capital punishment, genetic engineering, euthanasia, and professional ethics.

CREL 351 History of Christian Thought I 3 Credits

Development of Christian thought from the early church to the present. CREL 351 covers early and medieval thinkers in Africa and Europe, including late medieval male and female mystics, and concludes with the Protestant Reformers.

CREL 361 Culture and Religion 3 Credits

	d influence of religion from a cultural perspective. Drawing from re nificance, and relation of religion to culture.	cent sociological and anthropological
CREL 362	Psychology of Religion	3 Credits
	ects of religious experience by means of psychological study. Entail vehological theories as these apply to evaluating the impact of religi	
CREL 375	Religion and the Media I	3 Credits
The first of a two-semester survey evangelism, and other art forms. T	rey of historical and philosophical interpretations of religion in the ory.	he media, including religious drama,
CREL 383	Religions of Africa	3 Credits
Examines representative religious	s traditions of Africa, including African tribal religions and adaptati	ons of non-indigenous ones.
CREL 401/402	Off-Campus Study	3 Credits ea.
For students who wish to take co program.	ourses at institutions outside of the Atlanta University Center or to	o study abroad as part of their major
CREL 435	Contemporary Religious Thought	3 Credits
movements of the present century	religious thought, with emphasis on critical examination of re y. Topics include rethinking of the concept of God; the rise of ethical as process, black theology, feminist, and metaphorical theologies.	
CREL 451 - 454	Special Topics in Religion	3 Credits ea.
	current issues and thinkers in religion and ethics in the context of pro- lity, world missions, religious motifs in the arts, liberation theology a different topic.	
CREL 482/483	Independent Study	3 Credits ea.
	analytical and interpretive skills, students in consultation with their udy requires extensive reading and written work.	r instructor may select an appropriate
CREL 484 - 487	Internship	3 Credits ea.
In consultation with their advisor	rs, students may select an internship that articulates with their pros	spective career choices.
CSB 5606	Advanced Auditing and Analytical Procedures	3 Credits
statements; evaluate the reasonab the nature, timing, and extent of a	es to understand a client's business; identify unusual trends, rela pleness of the numbers in financial statements; identify potential ris audit procedures. Students utilize available research materials, data ss relevant issues. Emphasis is on analysis, teamwork, writing, and	sks associated with the audit; and plan abases, personal auditing experience,
CSB 5690	Governmental and Nonprofit Accounting	3 Credits
certification in these areas. Gove	of govern and nonprofit accounting and financial reporting, and rnmental accounting is studied using the textbook and incorpora ents the knowledge needed to work with nonprofits as auditors, bo	ating real-world examples. Nonprofit
CSB 6618	International Accounting	3 Credits
implications, regulation of accoun	the area of global financial reporting with a focus on multinathing and attestation in different countries, and reporting financial reporting requirements help or hinder access to capital marketing standards.	performance in a global context. The
convergence toward global report	Cost Management Systems	
CSB 6620	=	3 Credits
CSB 6620 Focuses on the analysis and reporellements to be study are cost stru	rting of resources costs and resource consumption explicitly direct ucture, value chain analysis, strategic cost management, and cost d	ted at strategic management. The key
CSB 6620 Focuses on the analysis and report elements to be study are cost struand operational decisions.	rting of resources costs and resource consumption explicitly direct	ted at strategic management. The key
CSB 6620 Focuses on the analysis and repore elements to be study are cost struand operational decisions. CSB 6621 Examines the financial reporting includes fair value accounting for	rting of resources costs and resource consumption explicitly direct ucture, value chain analysis, strategic cost management, and cost of	ted at strategic management. The key lriver analysis in support of strategic 3 Credits plex, multinational entities. The focus
CSB 6620 Focuses on the analysis and repore elements to be study are cost struand operational decisions. CSB 6621 Examines the financial reporting includes fair value accounting for statement. Class time will include	rting of resources costs and resource consumption explicitly direct ucture, value chain analysis, strategic cost management, and cost of Current Accounting Theory and Practice problems that arise from mergers and acquisitions and from compositions acquisitions, consolidation of financial statements, and consolidation of financial statements.	ted at strategic management. The key lriver analysis in support of strategic 3 Credits plex, multinational entities. The focus
CSB 6620 Focuses on the analysis and reporelements to be study are cost struand operational decisions. CSB 6621 Examines the financial reporting includes fair value accounting for statement. Class time will include CSB 6623 Study of accounting system data s	rting of resources costs and resource consumption explicitly direct ucture, value chain analysis, strategic cost management, and cost of the control of the cost o	ted at strategic management. The key driver analysis in support of strategic 3 Credits plex, multinational entities. The focus ross-currency translation of financial 3 Credits
CSB 6620 Focuses on the analysis and report elements to be study are cost struand operational decisions. CSB 6621 Examines the financial reporting includes fair value accounting for statement. Class time will include CSB 6623 Study of accounting system data sexpense cycles and computer assi	rting of resources costs and resource consumption explicitly direct ucture, value chain analysis, strategic cost management, and cost of the control of the cost o	ted at strategic management. The key driver analysis in support of strategic 3 Credits plex, multinational entities. The focus ross-currency translation of financial 3 Credits
CSB 6620 Focuses on the analysis and report elements to be study are cost struand operational decisions. CSB 6621 Examines the financial reporting includes fair value accounting for statement. Class time will include CSB 6623 Study of accounting system data sexpense cycles and computer assi CSB 6628 Overview of fraud prevention and	current Accounting Theory and Practice problems that arise from mergers and acquisitions and from complecture, discussion, and problem-solving. Advanced Accounting Information Systems Advanced Accounting Information Systems Security, fiduciary and reliability risks and mitigating internal contisted audit techniques.	ared at strategic management. The key driver analysis in support of strategic 3 Credits plex, multinational entities. The focus ross-currency translation of financial 3 Credits arols. Emphasis is on the revenue and 3 Credits an audit committee and legal counsel

Historical and analytical discussions of mathe present constitute this course.	ajor theoretical and methodological orientations in the developmen	nt of sociology from Comte to
Historical and analytical discussion Com-	sion the enetical and mothe delegical assessment are in the alice larger	st of aggiology from Cometate
CSCJ 388	Sociological Theory	3 Credits
problems. <i>Prerequisite</i> : CSCJ 337 or simu	Itaneous enrollment in CSCJ 337.	1
An introduction to basic research techni	ques and skills. Students learn how to select and apply appropi	
American family life. CSCJ 387	Social Research Methods I	3 Credits
An analysis of the American family past ar	nd present. Students consider the heritage, contemporary forms, fu	
CSCJ 352	Marriage and Family	3 Credits
Introduction to inferential statistics, hypot 337 or an introductory statistics course.	heses testing, simple use of analysis of variance, and correlations co	efficients. <i>Prerequisite</i> : CSCJ
CSCJ 338	Statistics II	3 Credits
requirements.	luding associational measures and probability. <i>Prerequisite</i> : Gen	eral Education mathematics
CSCJ 337	Statistics I	3 Credits
on administrative and managerial principermission of Instructor.	ff and managers functioning within the various agencies of the crimiples and techniques as they apply to the criminal justice system	n. Prerequisite : CSCJ 201 or
CSCJ 320	Criminal Justice Management	3 Credits
and change, and group behavior.	ction within the social environments. There is also an emphasis on o	
CSCJ 315	Social Psychology	3 Credits
victim/witness services, restitution and co	empensation. <i>Prerequisite</i> : CSCJ 201 or permission of the Instructor	or.
CSCJ 314 Victim role, criminal-victim relationships	Victimology s, and societal reaction to victimization, including crisis-interve	3 Credits ention centers, court-related
and age.	Victimalogy	2 Cradita
Introduction to health and illness issues a	and indicators. Examines disease and other health conditions in the	e context of ethnicity, gender
CSCJ 308	Medical Sociology	3 Credits
A study of the nature and causation of cr Instructor.	rime, crime typologies and the extent of criminality. <i>Prerequisite</i>	e: CSCJ 201 or permission of
CSCJ 301	Criminology	3 Credits
	s consider alternative proposals for resolving social problems.	· · · · · · · · · · · · · · · · · · ·
An examination of current social problem	Social Problems s and issues in the United States. Topics include drug addition, cl	
		3 Credits
	This course presents an overview of social and cultural anthropolo	
CSCJ 216	Introduction to Anthropology	3 Credits
Basic concepts and principles of human arrangements. Satisfies General Education	society. Students examine the social structure, group interacti	on, and processes of social
CSCJ 215H	Introduction to Sociology	3 Credits
Basic concepts and principles of human arrangements.	society. Students examine the social structure, group interacti	on, and processes of social
CSCJ 215	Introduction to Sociology	3 Credits
contemporary problems affecting law enfo	prcement.	·
A comprehensive survey of the history an	Law Enforcement d functions of the law enforcement agency, including discussions of	3 Credits
and responsibilities of various agencies of		T
-	progress of criminal justice systems in the United States, including	
CSCJ 201	ty, racial and sexual inequality and the interaction between culture Introduction to Criminal Justice	3 Credits
	affect behavior and values. Students consider among others, i	
	Culture and Society	3 Credits
CSCJ 105	vork. Prerequisite: Approval by the department chair.	3 Credits

Students learn to analyze, interpret, and present data. This is a course that stresses project design, sampling, measurement and the application of findings from social research. Prerequisite: CSCJ 387 or an introductory research course. **CSCI 400 Comparative Systems in Social and Criminal Justice** 3 Credits An analysis of issues in social and criminal justice and their characteristics as they relate to the operation of larger social structures viewed in global perspective. Prerequisite: junior or senior standing **CSCI 401** Corrections 3 Credits The systematic study of the official ways in which society reacts to persons who have been convicted of committing criminal acts, including persons handled by the juvenile courts. *Prerequisite*: CSCI 201 or permission of Instructor. **Judicial Process** 3 Credits An overview of courts, their legal basis, structure, jurisdiction and operation. An analysis of the legal processes including their historical development; an examination of theories, policies and practices regarding the offender. *Prerequisite*: CSCJ 201 or permission of Instructor. **Juvenile Delinguency** A study of the nature, extent, and causes of delinquency. Methods of prevention, treatment and correction will also be examined. Prerequisite: CSCJ 201 or permission of Instructor. **CSCI 405 Criminal Law** 3 Credits A survey of the nature and definition of criminal acts; a general study of laws relating to crimes and the punishment for their violation. Prerequisite: CSCJ 201 or permission of Instructor. Seminar on Organized Crime 3 Credits A study of organized crime including drug and vice offenders within the structures of a Constitutional Democracy. Prerequisite: Junior standing or permission of Instructor **CSCJ 420** 3 Credits Special Topics I Topics vary but may include an examination of the origin, change, and functions of neighborhoods and communities. May also cover community organizations and community development, environmental issues, poverty, crime, and inequality, among other topics. **CSCJ 421** Special Topics II 3 Credits A focus on different topics in sociology and criminal justice to vary by semester. Topics include deviance, environmental racism, HIV/AIDS and homophobia, organizational behavior, addictive disorders, sexism, ageism and inequality among others. Internship I Provides upper level students the opportunity to perform as participants in established criminal justice agencies at the local, state and federal levels. *Prerequisites*: Consent of the Instructor and completion of 90 or more credit hours toward the degree. Internship II 3 Credits Provides upper-level students the opportunity to work with any social or criminal justice agency. Those who have taken CSCJ 425 may use it as a continuing course for 3 additional credit hours. *Prerequisite*: Consent of the Instructor. **CSCI 430 Cultural and Ethnic Relations** 3 Credits Analysis of cultural groups both nationally and abroad. Students examine the nature of prejudice and discrimination in a context of similarities and differences of various peoples, especially those of African descent. 3 Credits **Social Stratification** An examination of global inequality relative to race/ethnicity, class, gender, age and other factors **CSCI 432 Gender Roles** 3 Credits An examination of cultural expectations and patterns of behavior of men and women in selected societies; focuses on the distribution of resources, prestige, and power in America in comparison to other developed and developing countries. **CSCI 480** Student Project 3 Credits Students pursue a program of reading, research, and writing as well as engage in a critical examination of one or more selected topics under the guidance of the instructor. **CSCI 490 Independent Study** 3 Credits Individualized program of research and/or other scholarly effort. *Prerequisite*: Approval of the department chair. **CSTA 101** 3 Credits **Fundamentals of Speech** Introduces students to fundamental principles of effective oral communication as it relates to the professional world, focusing on audience analysis, interpersonal skills, and effective listening techniques, and the preparation and delivery of oral presentations. **CSTA 103 Fundamentals of Theatre and Dance Movement** 1 Credit Study of the basic principles and forms of movement for dance and theatre. **CSTA 200 Oral and Written Presentation Skills** 3 Credits Designed to integrate oral and written communication skills. Emphasis is on principles of logic, organization of data, establishment of personal style, principles of research and investigation of purposes of various techniques of expression. Prerequisites: CSTA 101, CENG 105, and CENG 106.

CSTA 201 Voice and Diction 3 Credits Emphasis is on speech and vocal analysis by using the International Phonetic Alphabet (IPA). Introduces the student to techniques for speech improvement. **CSTA 211 Communication Theory and Rhetoric** 3 Credits Establishes theoretical frameworks to examine communication in interpersonal, small group, mass communication, and organizational communication contexts. Students will apply knowledge of theoretical concepts to facilitate understanding of the communication process and communication phenomenon. Prerequisite: CSTA 201. 3 Credits **CSTA 213 Public Address** Advanced course; offers experience in the composition, delivery, and criticism of public speeches. Prerequisite: CSTA 101 and permission of the instructor. **CSTA 218 Concepts in Human Communication** 3 Credits Explores communication theory and the group learning process, Incorporates theories from nonverbal communication, small group communication, persuasion, attitude study, and public speaking. Satisfies General Education Core requirement for speech for Honors **Oral Interpretation** 3 Credits **CSTA 251** Study and presentation of poetry, prose, drama and various literary forms with emphasis on voice and diction, imagery, phrasing, and characterization necessary to interpret text. *Prerequisite*: CSTA 201. Theatre Appreciation 3 Credits Course examines how theatre functions as an art form through the exploration of the interrelationships of the audience, performer and space. Designed to study the nature of the theatre experience by analyzing principles and practices that govern contemporary theatre. Attendance at several professional theatrical performances is required. Acting I 3 Credits Provides fundamentals of techniques of acting, character analysis, creative pantomime, mime, voice and diction. Students participate in lecture/laboratory sessions and rehearsals when in performance. Prerequisite: CSTA 201 Stagecraft 3 Credits Survey of the working knowledge of the basic materials, processes, and equipment for the fabrication, assembly, painting, rigging, and installation of contemporary stage scenery and properties 3 Credits CSTA 301 The Rhetoric of Persuasion Concentrates on analysis and understanding of the art of persuasion with applications of various theories of persuasion to the interpersonal communication process. **CSTA 302** Speech for the Classroom Teacher 3 Credits Advanced course in the principles of oral communication with emphasis on the development of skills for effective organization and oral presentation of instructional materials **CSTA 303 Argumentation and Debate** 3 Credits Introduction to theories and practices of formal public debate. Prerequisites: CSTA 200, CSTA 201, and CSTA 213. **CSTA 304 Business and Professional Speech** 3 Credits Examination of theories and techniques of effective speaking and listening, interviewing, group discussions, reporting in conferences and meetings; and business speeches to inform and persuade. Prerequisites: CSTA 101, CSTA 200, CSTA 201, and CSTA 213 for majors in speech communication; CSTA 101 and permission of the instructor for other concentration areas. **CSTA 305 Interpersonal Communication** 3 Credits Study of the psychology of the communication process. Students become familiar with ways of intentionally communicating ideas to others; processes for interpreting motives of speakers; environmental or cultural conditions influencing communication; and ways of functioning in a group, as either group leader or member. **CSTA 306** Speech for Radio/Stage/TV/Film 3 Credits Study of speaking techniques for the broadcast media and the performing arts, with emphasis on voice quality, flexibility, projection, articulation, and standards of good diction. Prerequisites: CSTA 101, CSTA 200, and CSTA 201. **Special Topics** 3 Credits Designed to investigate issues and topics in speech communication and theater arts, and or related fields. May be repeated up to six (6) credits. *Prerequisites*: Junior or senior status and permission of the instructor. **African-American Communication** 3 Credits Interdisciplinary approach to the study of communication systems used by African-Americans. Course examines the relationships that exist among language, culture, politics and economics. Prerequisites: CSTA 101, CSTA 200, and CSTA 201. **CSTA 316 Dramaturgy and Criticism** 3 Credits Designed to offer students an in-depth study of selected works and performances around which analytical approaches to dramatic literature and performances evolve.

CSTA 321	Lighting and Design	3 Credits
Introduction to theories, techniques	and art of the stage electrician and lighting designer. Prerequisite : CS	TA 255.
CSTA 351	Development of Drama I	3 Credits
	ent of drama through the survey of principal plays, playwrights, and veloping appreciation for drama and theatre as art forms and as factors	
CSTA 352	Development of Drama II	3 Credits
A continuation of CSTA 351. Prereq	uisite: CSTA 351.	
CSTA 353	Play Production Methods	3 Credits
Approach to understanding the fund	damental principles of preparing a play for public presentation.	
CSTA 354	Acting II	3 Credits
	s required to perform plays written in verse, traditional and nontradition aterials and a critical study of styles and techniques. <i>Prerequisite</i> : CST	
CSTA 402	Intercultural Communication	3 Credits
Designed to examine the role of copractice.	ommunication in the creation and transmission of cultural conscious	
CSTA 404	Organizational Communication	3 Credits
studying communication concepts	organizational communication and theories that have influenced its d . The course explores topics such as organizational culture and management, and group decision-making processes.	
CSTA 410	Costume Design	3 Credits
Study of the costume designer's ro Prerequisite : Junior or senior status	le in the design process that is involved in creating effective costumes.	es for the contemporary stage.
CSTA 452	Theatre Arts Management	3 Credits
	d managing in contemporary American theatre. Providing historical ba gerial systems. <i>Prerequisites</i> : Senior standing and permission of instru	
CSTA 453	Directing	3 Credits
	of plays and scripts, including various directing techniques and theopt, prepare a prompt book, and direct for public performance. Prerequipment	
CSTA 454	Children's Theatre	3 Credits
	ction of children's theatre. Also explores the approaches to and mount ation Core and community service requirement.	ing of a performance for youth.
CSTA 455	Entertainment Law	3 Credits
	ng and examining issues and pitfalls, which affect the client. Explores by ships, contract law, labor law, and libel. <i>Prerequisite</i> : Senior status.	usiness management issues and
CSTA 456	African-American Theatre	3 Credits
Study of plays, playwrights and cont	tributions of African-Americans to the theatre.	,
CSTA 482	Directed Study	3 Credits
	majors, in consultation with an instructor, develop specialized research munication issues. Prerequisite : Junior or senior status and permission	
CSTA 489	Internship	3 Credits
	work part-time in professional facilities. Emphasis is on learning of ecision-making positions. <i>Prerequisite</i> : Junior or senior status and period of the control of the co	
CSTA 490	Speech Communication and Theatre Arts Seminar	3 Credits
	d theater arts majors with opportunities to apply theories and technic inar for graduating seniors. Research projects should reflect the acade is.	
CUSW 200	Introduction to Social Work	3 Credits
	course for students interested in social work. The course traces the deepent organizations in social welfare and includes various fields of so	
CUSW 202	Introduction to Professional Helping	3 Credits

This course is a study in self-assessment, personal values clarification, problem solving and interviewing skills for career choices in social services. A directed field observation experience of at least 50 clock hours is required.

CUSW 300 Social Welfare Policies and Services 3 Credits

This course familiarizes students with social welfare policy formation and how corresponding organizational structures affect programs, services, and clients. The course also explores and analyzes select historical and current perspectives in developing policy to address societal issues. *Prerequisites*: CUSW 300, CUSW 301, CUSW 402, and CUSW 404. *Co-requisites*: CUSW 333, CUSW 401, CUSW 403, and CUSW 411.

CUSW 301 Social Research Methods for Social Work Practice I 3 Credits

This course introduces students to methods for social work research. The course takes students through research problem formulation, methods for answering research questions (qualitative and quantitative methods and interviews, surveys, case studies, practice effectiveness, etc.), and the major components of research design (sample, measurement, design, and procedures). *Co-Requisites*: CUSW 333, CUSW 401, CUSW 403, and CUSW 411.

CUSW 302 Statistics for Social Work Practice II 3 Credits

This course introduces students to descriptive and inferential statistics. In addition to learning about the use of statistics, students will learn to analyze, present, and interpret data based on the methodologies learned in the prerequisite course using the Statistical Package for Social Sciences (SPSS) computer application for data analysis. *Prerequisites*: CUSW 300, CUSW 301, CUSW 402, and CUSW 404.

CUSW 304 Colorism: Does Color Matter? 3 credits

This course provides knowledge and understanding for assessment and interpretation of colorism in the U.S. and/or Western civilization. The content includes information relative to African, Asian, Latino, and Native Americans, and women. Content also introduces the impact upon diverse non-Western White populations based on postcolonial assimilation experiences.

CUSW 333 Writing for Social Work 3 credits

This course prepares BSW students to master the skill of writing professional and effectively. Course work activities will provide hands-on-experience with social work writing tasks include writing mechanics; APA format; writing for social media, the use of strengths-based empowerment language, and resume writing. The course will strengthen students' writing, an essential social work skill, and support students' efforts on writing tasks assigned in future courses, the practicum experience, and in the profession of social work. *Prerequisites: CUSW 200 and CUSW 202*

CUSW 350 Issues of Health Disparities among Minority Populations 3 Credits

This course introduces students to select issues regarding health disparities that are dominant among minority populations. The course is divided into three modules: (1) current major health disparities (2) community-based health programs; and (3) a review of research methodologies and best-practice approaches to address the issues of health disparities in the United States.

CUSW 360 Interpersonal Skills Laboratory 3 Credits

This course is designed to enhance basic social work skills such as interviewing, problem solving, time management, technical writing, group processing, and empathic understanding. This course is also designed to assist students in developing effective communication and problem solving skills applicable to micro and mezzo systems. *Prerequisites*: CUSW 300, CUSW 301, CUSW 402, and CUSW 404.

CUSW 401 Human Behavior and the Social Environment I 3 Credits

This course focuses on the life stages from conception through adolescence and introduces students to multiple factors that influence the reciprocal relationship between the person and their environment. Students explore theoretical frameworks and, analyze and synthesize a range of behavioral constructs and contemporary social problems. *Prerequisites*: CUSW 200, and CUSW 202. (Non-social work majors must get approval from the Program Director.)

CUSW 402 Human Behavior and the Social Environment II 3 Credits

This course focuses on the life stages of young adulthood through late adulthood and introduces students to multiple factors that influence reciprocal relationships between the person and their environment. Students explore theoretical frameworks and, analyze and synthesize a range of behavioral constructs and contemporary social problems. *Prerequisites*: CUSW 333, CUSW 401, CUSW 403, and CUSW 411. (Non-social work majors must get approval from the Program Director.)

CUSW 403 Practice Competencies I 3 Credits

This course is designed to provide students with a synthesis of generalist social work knowledge, values, skills, and roles for integration into appropriate and effective helping strategies for professional practice with individuals, families, groups, communities, and organizations. *Prerequisite*: All required junior level courses and CUSW 200, and CUSW 202.

CUSW 404 Practice Competencies II 3 Credits

This course is an educationally directed practicum offered in a social service setting, emphasizing assessment and planning, and their relationships to improve social services delivery. In addition, the course emphasizes evaluation and research, and its relationship to improve social service delivery. Students complete 448 clock hours and participate in weekly seminars designed to provide students opportunities to discuss their experiences, bridging theories and real-life practice. *Prerequisites*: CUSW 333, CUSW 401, CUSW 403 and CUSW 411.

CUSW 405	Field Instruction I	12 Credits

This course is an educationally directed practicum offered in a social service setting, emphasizing assessment and planning, and their relationships to improve social services delivery. Students complete 196 clock hours and participate in bi-monthly seminars designed to provide students opportunities to discuss their experiences, bridging theories and real-life practice. *Prerequisites*: Completion of all major core courses. Students are in the filed four (4) days a week for Field Instruction. **Only declared Social Work seniors may enroll in this course**. *Prerequisites*: CUSW 200, CUSW 202, CUSW 300, CUSW 301, CUSW 302, CUSW 333, CUSW 360, CUSW 401, CUSW 402, CUSW 403, and CUSW 411.

CUSW 406 Field Instruction Seminar 3 Credits

This course is an educationally directed seminar aligned with the field practicum experience. Students attend weekly seminars designed to integrate and synthesize theories of social work practice, administration and community engagement. **Only Declared Social Work Seniors may enroll in this course.** *Prerequisite*: Satisfactory Completion of USW 405. *Co-requisites*: CUSW 402, CUSW 404, and CUSW 416. Only Declared Social Work Seniors may enroll in this Course. *Co-requisites*: CUSW 405

CUSW 411 Social Work Theory and Practice 3 Credits

This course introduces the relationship of theory and practice skills needed to practice with all systems. Primary focus is placed on structural rather than personal explanations of social problems with concern for inequality and oppression. The course integrates social work values and ethics, diversity, promotion of social and economic justice, and empowerment of human beings. *Prerequisites*: CUSW 200, CUSW 202.

CUSW 412 Mental Health of Diverse Groups 3 Credits

This course provides students with knowledge of mental health services and its application for diverse groups: i.e. African Americans, Hispanics, Native Americans, physically handicapped, migrant workers, women, and the elderly. Life situations impacting the behavior of these populations are examined from an ecosystems perspective in an effort to understand the mental health problems that may emerge.

CUSW 413 Child Welfare Programs and Services 3 Credits

This course covers knowledge, concepts and tools associated with contemporary child welfare practice focusing on micro, mezzo, and macro considerations in providing child welfare services. Emphasis will be placed on the identification of child maltreatment, reporting procedures, and continuing professional interaction with children and families from a community-based and multidisciplinary perspective.

CUSW 415 Issues in Child Welfare: Abuse and Neglect 3 Credits

This course will provide students with knowledge and information regarding how to assess and identify cases of child abuse and neglect. Students will gain general knowledge and understanding of the types of abuse and neglect, methods of investigations, interviewing techniques, as well as, knowledge of available community resources to both prevent and treat child abuse. *Prerequisites: CUSW 300, CUSW 301, CUSW 402, and CUSW 404*

CUSW 416 Social Work Practice with the Aged 3 Credits

This course will assist students with the development of competence in the delivery of services to older adults and their families. Students will explore social work practice with the elderly in various service settings. Students will acquire the skills required for interdisciplinary collaboration and intervention and the application of the problem-solving process with all systems.

CUSW 499 Independent Study 0-3 Credits

Students must confer with faculty sponsor to confirm their sponsorship for this course. In addition, students must submit a proposed plan of the independent study signed by the faculty sponsor.