

John Jay College

Academic University Report Detail

March 2021

Section AI: Special Actions

AI.1 Change in the Academic Structure for the Gender Studies Program (including the BA in Gender Studies and the Minor in Gender Studies)

Change approved: College Council, December 7th, 2020

Effective date: Immediately

Requested change: The ad-hoc John Jay College Gender Studies Program Committee (GSPC) formally requests that John Jay College Council affirm that the Gender Studies Program is a self-standing program & unhoused from the Department of Interdisciplinary Studies (DIS) academic organization. DIS agrees with this unhousing. This action does not change the status of, or teaching responsibilities of, the only full-time Gender Studies faculty member, Assistant Professor Dora Silva Santana, she will remain in the Department of Interdisciplinary Studies. Vice President of Academic Affairs and Provost, Yi Li, presented this change to College Council with his support.

Explanation: The Gender Studies Program was founded in 2009 as an independent, rotating, floating program. The Department of Interdisciplinary Studies was created in 2015 based, in large part, on a research report written by then Interim Dean of Undergraduate Studies Pease, indicating a need for a safe harbor for interdisciplinary programs and their lines. The GS faculty voted to join DIS in that spirit. Both before and after these changes, Gender Studies has had a major & a minor.

The college has no clear guidelines about the relationship between a program and a department, so being housed in DIS has not worked well for the Gender Studies Program. Unhousing merely formalizes what already exists. The program's current operations well-position Gender Studies to unhouse from DIS as seamlessly as possible. The program was self-sustaining before and after the move to DIS. The Gender Studies director has continued to hire part-time faculty to teach GEN courses, schedule GEN classes, and advise students in our major and minor. After this unhousing, the GSPC will create a formal governance document (by-laws) for the Gender Studies Program up-to-date with the pedagogical and ethical priorities of the field as exemplified by our professional association, the National Women's Studies Association. The ad hoc GSPC is committed to working with the JJC administration, current and recent (2019-2020) GEN-teaching faculty, and legal counsel every step of the way.

All parties agree to the separation. The College Council voted to approve this un-housing on December 7, 2020.

Section All: Changes in Generic Degree Requirements

All.1 Additions to the General Education Program

English Composition	
Mathematics and Quantitative Reasoning	
Life and Physical Sciences	
World Cultures & Global Issues	
U.S. Experience in Diversity	
Creative Expression	
Individual and Society	
Scientific World	
College Option	
Justice Core I: Justice and the Individual (100-Level)	
Justice Core II: Struggle for Justice & Equality in the U.S. (300-Level)	
Justice Core II: Justice in Global Perspective (300-Level)	
Learning from the Past	
HIS 244	History of Eugenics: Science and the Construction of Race
Communications	

Section All: Changes in Degree Programs

All.1 The following revisions are proposed for the BS in Applied Mathematics

Program: BS in Applied Mathematics

Program Codes: 39019; 39018 (MHC)

Effective: Fall 2021

Description of the changes: A recently approved new course, ENG 253 (see below under New Courses) is being added to the major electives, Part IV.

From	To
Course Credits	Course Credits
<p>BS in Applied Mathematics: Data Science and Cryptography</p> <p>The Applied Mathematics major has two concentrations, Data Science and Cryptography. The Data Science concentration presents the principles of data representation, big data management, and statistical modeling. Students learn to use modern computing techniques to reveal hidden causal and temporal relationships within large data sets. Hidden information is often benign but it might also be evidence of malevolent activities that have already occurred or are in progress. Cryptography is the science of both personal and institutional data security. Students learn to secure information, maintain data integrity, authenticity, and non-reputability. Cryptologists play a vital role in detecting events yet to unfold, especially when attempting to interdict and thwart incipient cyber intrusions and terrorist attacks.</p> <p>The curriculum offers an integrated academic program with the depth and breadth necessary to make graduates truly competitive in the job market. Both concentrations provide the knowledge and the skills that are in demand in high tech entrepreneurship, finance, modern communications, medicine, security, transportation, and manufacturing. The New York City metropolitan region is being repositioned as a nexus of technological innovation and discovery as well as a haven for entrepreneurial leadership. Such a metamorphosis requires the availability of a renewable work force possessing skills in data analysis and data security. Consequently, employment opportunities are expected to be available for applied mathematics graduates for the foreseeable future.</p>	<p>BS in Applied Mathematics: Data Science and Cryptography</p> <p>The Applied Mathematics major has two concentrations, Data Science and Cryptography. The Data Science concentration presents the principles of data representation, big data management, and statistical modeling. Students learn to use modern computing techniques to reveal hidden causal and temporal relationships within large data sets. Hidden information is often benign but it might also be evidence of malevolent activities that have already occurred or are in progress. Cryptography is the science of both personal and institutional data security. Students learn to secure information, maintain data integrity, authenticity, and non-reputability. Cryptologists play a vital role in detecting events yet to unfold, especially when attempting to interdict and thwart incipient cyber intrusions and terrorist attacks.</p> <p>The curriculum offers an integrated academic program with the depth and breadth necessary to make graduates truly competitive in the job market. Both concentrations provide the knowledge and the skills that are in demand in high tech entrepreneurship, finance, modern communications, medicine, security, transportation, and manufacturing. The New York City metropolitan region is being repositioned as a nexus of technological innovation and discovery as well as a haven for entrepreneurial leadership. Such a metamorphosis requires the availability of a renewable work force possessing skills in data analysis and data security. Consequently, employment opportunities are expected to be available for applied mathematics graduates for the foreseeable future.</p>

Those individuals that opt to undertake graduate study will find that they are well prepared to enroll in a wide range of Masters and Doctoral programs such as Digital Forensics and Cyber Security, Financial Mathematics, Machine Learning, traditional Mathematics, and Mathematics Education. Indeed, the required mathematics core aligns well with the core requirements of other CUNY mathematics programs thereby affording graduates the widest possible choice of subsequent educational opportunities.

Credits required.

Applied Math major: 51-54

General Education: 42

Electives: 24-27

Total Credits for the Degree: 120

Additional information. Students who enrolled for the first time at the College or changed to this major in September 2020 or thereafter must complete the major in the form presented here. Students who enrolled prior to that date may choose the form shown here or the earlier version of the major. A copy of the earlier version may be obtained in the 2019-20 Undergraduate Bulletin.

FOUNDATIONAL COURSES Subtotal: 0-3 cr.
May be required depending on mathematics placement

MAT 141 – Pre-Calculus

Advisor recommendation: MAT 141 fulfills the Required Core: Mathematics and Quantitative Reasoning area of the Gen Ed Program.

PART ONE. Core Courses Subtotal: 12 cr.
Required
CSCI 271 Intro to Computer Science
CSCI 272 Object-Oriented Programming
MAT241 Calculus I
MAT 242 Calculus II

PART TWO. Mathematics Core Courses Subtotal: 21 cr.
Required

Those individuals that opt to undertake graduate study will find that they are well prepared to enroll in a wide range of Masters and Doctoral programs such as Digital Forensics and Cyber Security, Financial Mathematics, Machine Learning, traditional Mathematics, and Mathematics Education. Indeed, the required mathematics core aligns well with the core requirements of other CUNY mathematics programs thereby affording graduates the widest possible choice of subsequent educational opportunities.

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Required
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CSCI 272 Object-Oriented Programming
MAT241 Calculus I
MAT 242 Calculus II

PART TWO. Mathematics Core Courses Subtotal: 21 cr.
Required

MAT 243 Calculus III
MAT 244 Calculus IV
MAT 250 Elements of Mathematical Proof
MAT 301 Probability & Mathematical Statistics I
MAT 310 Linear Algebra
MAT 351 Introduction to Ordinary Differential Equations
CSCI 373 Advanced Data Structures

PART THREE. Concentrations Subtotal: 12 cr.
Students must choose one concentration and complete four courses

Concentration A. Data Science

Data Science plays a critical role in analyzing large data sets which may have valuable information that is obscured by the sheer volume of the data itself. In the Data Science concentration, students will learn the principles of data representation, big data management, and statistical modeling. They will also be able to use computers to reveal hidden causal and temporal relationships in large data sets.

Required

CSCI 362 Databases and Data Mining
MAT 302 Probability and Mathematical Statistics II
MAT 367 Multivariate Analysis
MAT 455 – Data Analysis

Concentration B. Cryptography

Cryptography is the science of data security, both personal and institutional, and as such is also an important component of justice. In the Cryptography concentration, students will learn to secure information which is achieved by assuring privacy as well as other properties of a communication channel, such as data integrity, authenticity, and non-reputability, depending upon the application. They will devise systems for companies to resist the unwarranted intrusions of hackers, to protect internal company and consumer data, and to act as consultants to research staff concerning the implementation of cryptographic and mathematical methods.

Required

CSCI 360 Cryptography and Cryptanalysis
MAT 341 Advanced Calculus I

MAT 243 Calculus III
MAT 244 Calculus IV
MAT 250 Elements of Mathematical Proof
MAT 301 Probability & Mathematical Statistics I
MAT 310 Linear Algebra
MAT 351 Introduction to Ordinary Differential Equations
CSCI 373 Advanced Data Structures

PART THREE. Concentrations Subtotal: 12 cr.
Students must choose one concentration and complete four courses

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Required

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MAT 367 Multivariate Analysis
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Required

CSCI 360 Cryptography and Cryptanalysis
MAT 341 Advanced Calculus I

<p>MAT 410 Abstract Algebra MAT 460 Mathematical Cryptography</p> <p>PART FOUR. Electives Subtotal: 6 cr. Choose two MAT 323 Operations Research Models I MAT 324 Operations Research Models II MAT 352 Applied Differential Equations MAT 354 Regression Analysis MAT 365 The Mathematics of Signal Processing MAT 371 Numerical Analysis MAT 380 Selected Topics in Mathematics MAT 442 Advanced Calculus II CSCI 358 Machine Learning CSCI 421 Quantum Computing</p> <p style="text-align: right;">Total Credits for Major: 51-54</p>	<p>MAT 410 Abstract Algebra MAT 460 Mathematical Cryptography</p> <p>PART FOUR. Electives Subtotal: 6 cr. Choose two MAT 323 Operations Research Models I MAT 324 Operations Research Models II MAT 352 Applied Differential Equations MAT 354 Regression Analysis MAT 365 The Mathematics of Signal Processing MAT 371 Numerical Analysis MAT 380 Selected Topics in Mathematics MAT 442 Advanced Calculus II CSCI 358 Machine Learning CSCI 421 Quantum Computing <u>ENG 253 Technical Writing in Computer Science, Math and Science</u></p> <p style="text-align: right;">Total Credits for Major: 51-54</p>
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Rationale. The Department of Math and Computer Science collaborated on a new course in technical writing with the English Department. This course enables students in the Applied Math and Computer Science and Information Systems the opportunity to enhance their writing skills.

Additionally, students may have to take MAT 105 College Algebra to meet the prerequisites for MAT 141 Pre-Calculus.

PART ONE. CORE COMPUTER SCIENCE COURSES
SUBTOTAL: 33 CR.

Required

CSCI 271 Intro to Computer Science
CSCI 272 Object-Oriented Programming
CSCI 274 Computer Architecture
CSCI 360 Cryptography and Cryptanalysis
CSCI 373 Advanced Data Structures
CSCI 374 Programming Languages
CSCI 375 Operating Systems
CSCI 377 Computer Algorithms
CSCI 379 Computer Networking
CSCI 411 Computer Security & Forensics
CSCI 412 Network Security & Forensics

PART TWO. REQUIRED MATH COURSES SUBTOTAL: 9 CR.

Required

MAT 204 Discrete Structures
MAT 241 Calculus I
MAT 301 Probability & mathematical Statistics I

PART THREE. ELECTIVES SUBTOTAL: 6 CR.

Category A. Computer Science Electives

Select one.

CSCI 275
CSCI 358 Machine Learning
CSCI 362 Databases and Data Mining
CSCI 376 Artificial Intelligence
CSCI 380 Selected Topics in Computer Science
CSCI 404 Internship in Management Info Systems
CSCI 421 Quantum Computing

Category B. Mathematics Electives

Select one.

MAT 242 Calculus II

students may have to take MAT 105 College Algebra to meet the prerequisites for MAT 141 Pre-Calculus.

PART ONE. CORE COMPUTER SCIENCE COURSES
SUBTOTAL: 33 CR.

Required

CSCI 271 Intro to Computer Science
CSCI 272 Object-Oriented Programming
CSCI 274 Computer Architecture
CSCI 360 Cryptography and Cryptanalysis
CSCI 373 Advanced Data Structures
CSCI 374 Programming Languages
CSCI 375 Operating Systems
CSCI 377 Computer Algorithms
CSCI 379 Computer Networking
CSCI 411 Computer Security & Forensics
CSCI 412 Network Security & Forensics

PART TWO. REQUIRED MATH COURSES SUBTOTAL: 9 CR.

Required

MAT 204 Discrete Structures
MAT 241 Calculus I
MAT 301 Probability & mathematical Statistics I

PART THREE. ELECTIVES SUBTOTAL: 6 CR.

Category A. Computer Science Electives

Select one.

CSCI 275 Linux System Administration & Security
CSCI 358 Machine Learning
CSCI 362 Databases and Data Mining
CSCI 376 Artificial Intelligence
CSCI 380 Selected Topics in Computer Science
CSCI 404 Internship in Management Info Systems
CSCI 421 Quantum Computing
ENG 253 Technical Writing in Computer Science, Math & Science

Category B. Mathematics Electives

Select one.

MAT 242 Calculus II

MAT 243 Calculus III MAT 244 Calculus IV MAT 310 Linear Algebra MAT 351 Intro to Ordinary Differential Equations MAT 371 Numerical Analysis MAT 380 Selected Topics in Math		MAT 243 Calculus III MAT 244 Calculus IV MAT 310 Linear Algebra MAT 351 Intro to Ordinary Differential Equations MAT 371 Numerical Analysis MAT 380 Selected Topics in Math	
PART FOUR. ETHICS Required	SUBTOTAL: 3 CR.	PART FOUR. ETHICS Required	SUBTOTAL: 3 CR.
PHI 216 Ethics & Information Technology		PHI 216 Ethics & Information Technology	
PART FIVE. CAPSTONE COURSES Required CSCI 400 Capstone Experience in Digital Forensics/Cybersecurity I CSCI 401 Capstone Experience in Digital Forensics/Cybersecurity II	SUBTOTAL: 6 CR.	PART FIVE. CAPSTONE COURSES Required CSCI 400 Capstone Experience in Digital Forensics/Cybersecurity I CSCI 401 Capstone Experience in Digital Forensics/Cybersecurity II	SUBTOTAL: 6 CR.
	Total credits for major: 57-60		Total credits for major: 57-60

Rationale. The Department of Math and Computer Science collaborated on a new course in technical writing with the English Department. This course enables students in the Applied Math and Computer Science and Information Systems the opportunity to enhance their writing skills.

Section AIV: New Courses

AIV.1

Department(s)	English
Career	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	ENG
Course Number	253
Course Title	Technical Writing in Computer Science, Math and Sciences
Catalogue Description	Whether in academia or in the professional workplace, programmers, creators, scholars, and designers need to explain their complex concepts and original technical innovations in informative and easy-to-understand communications. In this course, students learn to write effectively in their disciplines by mastering a variety of writing strategies: explaining a topic, writing to audiences with differing levels of expertise, analyzing the work of experts, presenting original research across several media, and doing so in the precise structures, vocabulary and style required of technical writers.
Prerequisites	ENG 201
Credits	3
Contact Hours	3
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute	
General Education Component	<u> X </u> Not Applicable

Rationale. Currently, for Computer Science, Applied Mathematics and other STEM majors, there is no writing course required (or offered) to students. Faculty report that students struggle with even the limited writing expectations that require short documentation in programming classes, writing about research, and especially when they conduct original research as seniors to write a formal, capstone research paper of 15-20 pages. The English Department's Vertical Writing Program offers other Disciplinary Writing Courses, which enable students to investigate research-based academic writing within their disciplines. Similarly, "Technical Writing in Computer Science, Math, and Science" will support students as they learn the conventions of writing that are so particular to these applied disciplines. The ability for STEM students to document, explain, and discuss their processes and programs to both scholarly and professional audiences is important, especially since Technical Writing is an unusually precise genre.

AIV.2

Department(s)	History
Career	<input checked="" type="checkbox"/> Undergraduate <input type="checkbox"/> Graduate
Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	HIS
Course Number	244
Course Title	History of Eugenics: Science and the Construction of Race
Catalogue Description	This course explores the history of Eugenics in the United States in late-nineteenth and early-twentieth century America. Eugenics, dubbed “the science of good breeding”, used the principles of heredity and statistics to shape people. Eugenics is now regarded as a pseudo-science, but its legacies inform the social and biological ideas of race, gender, and biology, and the formation and construction of American state power and social order. This course examines the ways in which science and medicine, when combined with powerful hate-driven ideologies, have resulted in violations of civil rights, including imprisonment, torture, sterilization, unlawful experimentation, and death. It also investigates the scientific community’s responses to these examples of extraordinary abuse, which provide the network of checks and balances currently governing scientific experimentation.
Prerequisites	ENG 101
Credits	3
Contact Hours	3
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute	College Option
General Education Component	This course will become part of the John Jay College Option: Learning from the Past area of the Gen Ed Program.

Rationale. The Learning from the Past category of the Gen Ed Program requires additional course of interest to students on themes such as Criminal Justice Reform, Cultural and Social Views of Injustice, Civil Rights, Environmental Justice, and Immigration. Few topics offer a wealth of perspective like the history of eugenics. This class will serve as an entry point for students to understand that modern debates are situated in historical contexts.

AIV.3

Department(s)	MA in International Crime and Justice/ MS in Security Management
Career	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	ICJ / SEC
Course Number	760
Course Title	Information Technology & Cybercrime
Short Description	Info Tech & Cybercrime
Catalogue Description	The borderless nature of cybercrime, along with its anonymity and speed provides unique opportunities for criminality. The exponential growth of cybercrime is enabled by the fast adaptations of cybercriminals exploiting cyber space and new technologies. Regardless of how effective and elaborate the technical layers of security in a system are, the human element will always be the weakest link in the system. Cybercrime is a transnational problem requiring collaboration and training at the global level. This course covers the history, causes and evolution of cybercrime through study of surveys, system and human factors, cybercrime laws and policies, and motives and attitudes of cyber criminals. The course additionally covers fundamentals of computer Network Security, principles, and methods used in making informed security decision. The course offers an interdisciplinary approach that combines criminal justice and cybersecurity.
Prerequisites	None
Credits	3
Contact Hours	3
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute	
General Education Component	<input checked="" type="checkbox"/> Not Applicable

AIV.4

Department(s)	Economics MA
Career	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	ECO
Course Number	731
Course Title	Economic Development
Catalogue Description	Economic Development is always a highly contested concept. Scholars disagree on the definition, causes, and consequences of development. In this course we study a wide range of development-related questions in a comparative historical context. We will discuss the divergence of east and west, the center-periphery relationship in the world economy, the rise and fall of developmental state, the green revolution and other issues including demographic change and food security.
Prerequisites	None
Credits	3
Contact Hours	3
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute	
General Education Component	<input checked="" type="checkbox"/> Not Applicable

Section AV: Changes in Existing Courses

AV: 1 Changes to be offered in the Department of Communication and Theatre Arts

FROM		TO	
Departments	Communication and Theatre Arts	Departments	N/C
Course	DRA 185 Drama in Production	Course	N/C
Prerequisite	Permission of the instructor/department	Prerequisite	Permission of the instructor/department
Hours	3	Hours	3
Credits	3	Credits	3
Description	Participation in John Jay production as a performer and backstage as a technician requires substantial contribution of time, talent and cooperation nights and weekends.		Participation in John Jay production as a performer and backstage as a technician requires substantial contribution of time, talent and cooperation nights and weekends. <u>Note: Students can repeat this course up to 3 times.</u>
Requirement Designation		Requirement Designation	
Liberal Arts	[X] Yes [] No	Liberal Arts	[X] Yes [] Not
Course Attribute		Course Attribute	<u>ELO (performance)</u>
General Education Component		General Education Component	
Effective		Effective	Fall 2021

Rationale: John Jay will no longer be offering the DRA 295 course which allowed students to have a second experience with College productions. To allow this, we are making DRA 185 repeatable up to three times by students. This move saves the college the expense of hiring a faculty member for a perennially, lightly enrolled course.

AV: 2 Changes to be offered in the Department of Mathematics and Computer Science

FROM		TO	
Departments	Mathematics and Computer Science	Departments	N/C
Course	MAT 105 College Algebra	Course	N/C
Prerequisite	Placement examination or skills certification	Prerequisite	Placement based on high school preparation
Hours	3	Hours	3
Credits	3	Credits	3
Description	This course prepares students for the study of pre-calculus and develops their mathematical maturity. The topics to be covered include a review of the fundamentals of algebra, relations, functions, solutions of first-and second-degree equations and inequalities, systems of equations, matrices and determinants, binomial theorem, mathematical induction, polynomial functions, exponential and logarithmic functions, analytic geometry and conic sections.	Description	<u>This course examines the basic assumptions underlying the fundamental concepts of algebra and the role of mathematics in the analysis and interpretation of algebraic and graphical problems.</u> Topics include a review of the fundamentals of algebra, equations and inequalities, functions and relations, polynomial and rational functions, exponential and logarithmic functions, <u>systems of equations and inequalities, and miscellaneous topics.</u> This course prepares students for the study of pre-calculus and develops their mathematical maturity.
Requirement Designation	RC: Math and Quantitative Reasoning	Requirement Designation	N/C
Liberal Arts	[X] Yes [] No	Liberal Arts	[X] Yes [] Not
Course Attribute		Course Attribute	
General Education Component	Required Core: __X__ Math and Quantitative Reasoning	General Education Component	N/C
Effective		Effective	Fall 2021

Rationale: Placement criteria for entry level math has changed CUNY-wide, students no longer take placement exams. Math placement will also depend upon students' choice of major. College algebra will be primarily for STEM students although other students can opt to take it. This revision also updates the topics that are currently taught in the course.

AV: 3 Changes to be offered in the Department of Mathematics and Computer Science

FROM		TO	
Departments	Math and Computer Science	Departments	N/C
Course	MAT 108 Social Science Mathematics	Course	N/C
Prerequisite	MAT 104 or MAT 105 or EXE 106 or ACT MATH Placement Part 1 score greater than 34 and Part 2 score greater than 57 and Part 3 score 35-46	Prerequisite	<u>Placement into MAT 108 based on high school preparation</u>
Hours	3	Hours	3
Credits	3	Credits	3
Description	Recommended for students interested in the role of mathematical models in the quantification of the social sciences. Emphasis on mathematical skills and topics basic to the understanding of probability, linear programming, the power index, learning models, statistics, etc.		<u>This course prepares students for the study of statistics and develops their mathematical maturity in interpreting research in the social sciences. Emphasis is on basic descriptive statistical methods to develop students' understanding of graphical representation and interpretation. Topics include elementary algebra, set theory, probability and counting techniques, statistics, and miscellaneous topics.</u>
Requirement Designation	Required Core: Math & Quantitative Reasoning	Requirement Designation	N/C
Liberal Arts	[X] Yes [] No	Liberal Arts	[X] Yes [] No
Course Attribute		Course Attribute	
General Education Component	Required Core _X_ Math & Quantitative Reasoning	General Education Component	N/C
Effective		Effective	Fall 2021

Rationale: Social Science Mathematics will be the prerequisite to STA 250 for non-STEM students and the course material has been revised to include pre-statistics topics in preparation for students moving on to take statistics. The placement criteria is being revised to align with CUNY's new mathematics placement process based on students' high school preparation rather than a placement exam.

AV: 4 Changes to be offered in the Department of Math and Computer Science

FROM		TO	
Departments	Math and Computer Science	Departments	N/C
Course	MAT 250 Elements of Mathematical Proof	Course	MAT 265 Elements of Mathematical Proof
Prerequisite	ENG 201 and MAT 242	Prerequisite	ENG 201; and MAT 152 or MAT 242
Hours	3	Hours	3
Credits	3	Credits	3
Description	This course will prepare the student for advanced study in theoretical mathematics classes. Mathematical proof techniques will be introduced, along with the logic and reasoning behind them. Topics studied include sets, relations, conditional statements, necessary and sufficient conditions, quantifiers, direct proof, indirect proof, counter examples, mathematical induction, set identities, equivalence relations and modular arithmetic.		N/C
Requirement Designation		Requirement Designation	
Liberal Arts	[X] Yes [] No	Liberal Arts	[X] Yes [] Not
Course Attribute		Course Attribute	
General Education Component	<u> X </u> Not Applicable	General Education Component	N/C
Effective		Effective	Fall 2021

Rationale: The course numbers of our calculus courses are changing because of the change in the calculus sequence from four three-credit courses to three four-credit courses. Currently MAT 244 is the course number of the last calculus course in the sequence. For the new calculus sequence, MAT 253 will be the course number of the last course in the sequence. The course number for elements of mathematical proof should be higher than the course number of the last course in the calculus sequence. Thus, we are proposing the change of course number to MAT 265 so that it is higher than MAT 253. There is also a concern that there will be confusion between STA 250 and MAT 250.

AV: 5 Changes to be offered in the Department of Political Science

FROM		TO	
Departments	Political Science	Departments	NC
Course	POL 257 Comparative Politics	Course	NC
Prerequisite	ENG 101, and GOV 101 or POL 101 or permission of the section instructor.	Prerequisite	ENG 101, and POL 101 or permission of the section instructor.
Hours	3	Hours	3
Credits	3	Credits	3
Description	The course will examine the political processes and institutions of selected foreign governments. Emphasis will be placed on the relationship of political institutions to key cultural, economic and historical variables.		<u>This course provides an introduction to the study of comparative politics, which is the study of politics within different countries around the world. The main focus is on the emergence and development of major types of political systems and political institutions in relation to key cultural, economic and historical variables.</u>
Requirement Designation		Requirement Designation	
Liberal Arts	[X] Yes [] No	Liberal Arts	[X] Yes [] Not
Course Attribute		Course Attribute	
General Education Component	<u> X </u> Not Applicable	General Education Component	NC
Effective		Effective	Fall 2021

Rationale: The proposed prerequisites are essentially the same as the current prerequisites. We are removing reference to GOV 101, which POL 101 was called many years ago. We are updating the description of this course to better reflect the scholarly treatment of the subfield and the way the course is currently taught.

AV: 6 Changes to be offered in the Department of

FROM		TO	
Departments	Political Science	Departments	N/C
Course	POL260 International Relations	Course	N/C
Prerequisite	ENG 101, and GOV 101 or POL 101 or permission of the section instructor.	Prerequisite	ENG 101, and POL 101 or permission of the section instructor.
Hours	3	Hours	3
Credits	3	Credits	3
Description	A survey of the factors that influence the relations among nations. Theories of war, peace, imperialism and the determinants of power. The superpowers and balance of terror. International law and organization. National integration and the creation of regional communities. The rise of the Third World and the crisis of the international order.		<u>What drives world politics? This course introduces students to the academic study of international relations. Course readings and class discussions cover the major concepts and theories used by scholars and practitioners to describe and explain events in global affairs. Topics covered include: the causes of war and peace; globalization and international economic affairs; international law and organizations; global environmental politics; and human rights.</u>
Requirement Designation		Requirement Designation	
Liberal Arts	[X] Yes [] No	Liberal Arts	[X] Yes [] Not
Course Attribute		Course Attribute	
General Education Component	___X___ Not applicable	General Education Component	N/C
Effective		Effective	Fall 2021

Rationale: The proposed prerequisites are essentially the same as the current prerequisites. We are removing reference to GOV 101, which POL 101 was called many years ago. We are updating the description of this course to better reflect the scholarly treatment of the subfield and the way the course is currently taught.

AV: 7 Changes to be offered in the Department of Political Science

FROM		TO	
Departments	Political Science	Departments	NC
Course	POL 308 State Courts and State Constitutional Law	Course	POL 308 <u>State Constitutional Law and Politics</u>
Short Description			State Con Law & Politics
Prerequisite	ENG 201, and GOV 101 or POL 101, and junior standing or above or permission of the section instructor.	Prerequisite	ENG 201, and POL 101, and junior standing or above or permission of the section instructor.
Hours	3	Hours	3
Credits	3	Credits	3
Description	This course focuses on the development of state constitutional criminal law and its relation to federal constitutional criminal law. It examines the structure of state judicial systems, emphasizing the role of appellate courts in handling criminal cases, and the relationship between the state and federal courts.		<u>This course addresses the nature and function of state constitutions in our federal system of government, with particular emphasis on the protection of individual rights under state constitutions, issues of judicial interpretation, and the politics surrounding state constitutional revision and amendment.</u>
Requirement Designation		Requirement Designation	
Liberal Arts	[X] Yes [] No	Liberal Arts	[X] Yes [] Not
Course Attribute		Course Attribute	
General Education Component	<u> X </u> Not applicable	General Education Component	NC
Effective		Effective	Fall 2021

Rationale: The proposed title and description are more consistent with how this course is currently taught. Furthermore, the revised title and description parallel the titles and descriptions of the department's other constitutional law offerings, which focus on the federal constitution and courts. The proposed prerequisites are essentially the same as the current prerequisites. We are removing reference to GOV 101, which POL 101 was called many years ago.

AV: 8 Changes to be offered in the Department of Political Science

FROM		TO	
Departments	Political Science	Departments	NC
Course	POL 316 Politics of Rights	Course	NC
Prerequisite	ENG 201, and GOV 101 or POL 101, and junior standing or above or permission of the section instructor.	Prerequisite	ENG 201, and POL 101, and junior standing or above or permission of the section instructor.
Hours	3	Hours	3
Credits	3	Credits	3
Description	Rights and claims are defining features of American, and to an increasing degree, world political and social life. After taking this course, students will be better able to identify, understand, and critically evaluate how and why rights are used in our political and social world. We will study a range of materials that address such topics as: what rights are; if, why, and when rights-claims have power; the history of using rights-claims to achieve political goals; how, why, when, and who uses rights-claims in contemporary political disputes; and what we do when rights conflict. Particular attention will be paid to social and political movements that use rights-claims, as well as the various advantages, limitations, and problems that accompany rights-based political appeals. Individual instructors may anchor the course in specific sub-topics, primary texts, cultures, historical moments, etc., depending on their interests and areas of specialization.		NC
Requirement Designation		Requirement Designation	
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not
Course Attribute		Course Attribute	
General Education Component	<u> X </u> Not applicable	General Education Component	NC
Effective		Effective	Fall 2021

Rationale: The GOV 101 prerequisite is being removed because it was the old number and prefix for POL 101.

AV: 9 Changes to be offered in the Department of Political Science

FROM		TO	
Departments	Political Science	Departments	NC
Course	POL 406 Seminar and Internship in NYC Government and Politics	Course	NC
Prerequisite	ENG 201, and GOV 101 or POL 101, senior status, and permission of the instructor.	Prerequisite	ENG 201 and POL 101, senior status, and permission of the instructor.
Hours	6	Hours	6
Credits	6	Credits	6
Description	Students take a once weekly John Jay College senior seminar that examines the City Charter and formal governmental structures, New York City politics and public policies. Once per month students also meet at The City University Graduate Center for the CUNY Forum, a CUNY (Cable 75) televised public affairs program featuring guests on current NYC topics and highlighting student participation. In the internship placement, students work 12 to 16 hours for each of the 14 semester weeks with an elected official, city agency, or relevant nonprofit organization. Placements are arranged by the instructor in consultation with the student. The emphasis of the program is a synthesis of the students' seminar work and guided observations in the <u>placement</u> .		Students take a once weekly John Jay College senior seminar that examines the City Charter and formal governmental structures, New York City politics and public policies. Once per month students also meet at The City University Graduate Center for the CUNY Forum, a CUNY (Cable 75) televised public affairs program featuring guests on current NYC topics and highlighting student participation. In the internship placement, students work 12 to 16 hours for each of the 14 semester weeks with an elected official, city agency, or relevant nonprofit organization. Placements are arranged by the instructor in consultation with the student. The emphasis of the program is a synthesis of the students' seminar work and guided observations in the <u>internship</u> .
Requirement Designation		Requirement Designation	
Liberal Arts	[] Yes [X] No	Liberal Arts	NC
Course Attribute	none	Course Attribute	<u>ELO-INT</u>
General Education Component	<u>__X__</u> Not applicable	General Education Component	NC
Effective		Effective	Fall 2021

Rationale: The proposed prerequisites are essentially the same as the current prerequisites. We are removing reference to GOV 101, which POL 101 was called many years ago. "Internship" is a more appropriate word choice.

AV: 10 Changes to be offered in the Department of Political Science

FROM		TO	
Departments	Political Science	Departments	NC
Course	POL 407 NYS Assembly-Senate Session Program	Course	POL 407 NYS Assembly-Senate Internship Program
Short Description	Nys Assembly/Senate		<u>NYS Legislature Internship</u>
Prerequisite	ENG 201, and GOV 101 or POL 101, senior status, and permission of the instructor.	Prerequisite	ENG 201 and POL 101 and senior status and permission of the instructor.
Hours	42	Hours	<u>15</u>
Credits	42	Credits	<u>15</u>
Description	Students in this public affairs residency internship are placed in the office of an Assembly Member or State Senator in the state legislature in Albany for 35 hours weekly for a 16-week spring semester, including participation in weekly on-site seminars and related academic activities. Reading, writing and research assignments are specified by on-site seminar faculty. Including orientation and finale events, students should expect to be in Albany for approximately 18 weeks. Students work with their college faculty liaison and the CUNY Edward T. Rogowsky Internship Program to apply for program acceptance and supporting stipends. Application for this program is competitive; acceptance is not guaranteed. Notes: Students must have the permission of the Center for Career and Professional Development to register for this course.		NC
Requirement Designation		Requirement Designation	
Liberal Arts	[] Yes [X] No	Liberal Arts	NC
Course Attribute	None	Course Attribute	<u>ELO-INT</u>
General Education Component	<u> X </u> Not applicable	General Education Component	NC
Effective		Effective	Fall 2021

Rationale: The proposed title properly identifies this as an internship program. We are also requesting that students who participate in this program receive 15 credits instead of 12. The program requires that students engage in a semester's worth of study at the state legislature in Albany. Receiving only 12 credits is inconsistent with the practices of other colleges and universities that participate in the program. It also places our students in the position of having to make up 3 credits at another time in order to graduate in eight semesters. The work students do is academically rigorous and worth the granting of 15 credits. The proposed prerequisites are essentially the same as the current prerequisites. We are removing reference to GOV 101, which POL 101 was called many years ago.

AV: 11 Changes to be offered in the Department of Political Science

FROM		TO	
Departments	Political Science	Departments	NC
Course	POL 408 CUNY Washington, DC Summer Internship	Course	NC
Prerequisite	ENG 201, and GOV 101 or POL 101, senior status, and permission of the instructor.	Prerequisite	ENG 201; and POL 101 and senior status and permission of the instructor.
Hours	6	Hours	6
Credits	6	Credits	6
Description	<p>This is an eight-week summer session residency internship in Washington, D.C. with a focus on American government and politics. Students apply through their college faculty liaison to the CUNY Edward T. Rogowsky Internship Program for acceptance and a stipend award. Accepted students are placed with a federal agency, U.S. representative or senator, or a recognized and relevant nonprofit organization. Students work for 35 hours per week in their placement, complete written and research assignments and participate in related academic activities as designated by the Rogowsky Program and approved by the John Jay College Political Science Department faculty sponsor. Application for this program is extremely competitive; acceptance is not guaranteed. Notes:</p>		<p><u>This is an eight-week summer session residency internship in Washington, D.C. with a focus on American government and politics. Students apply through their college faculty liaison to the CUNY Edward T. Rogowsky Internship Program for acceptance and a stipend award. Accepted students are placed with a federal agency, U.S. representative or senator, or a recognized and relevant nonprofit organization. Students work for 35 hours per week in their placement, complete written and research assignments and participate in related academic activities as designated by the Rogowsky Program and approved by the John Jay College Political Science Department faculty sponsor. Application for this program is extremely competitive; acceptance is not guaranteed.</u></p>

	Students must have the permission of the Center for Career and Professional Development to register for this course.		
Requirement Designation		Requirement Designation	
Liberal Arts	[] Yes [X] No	Liberal Arts	NC
Course Attribute	None	Course Attribute	<u>ELO-INT</u>
General Education Component	<u> X </u> Not applicable	General Education Component	NC
Effective		Effective	Fall 2021

Rationale: Unlike the Albany internship program (POL 407), students do not need permission of the Center for Career and Professional Development to participate in the Washington, D.C., internship and receive credit for POL 408. We have, therefore, removed that from the course description. The proposed prerequisites are essentially the same as the current prerequisites. We are removing reference to GOV 101, which POL 101 was called many years ago.

AV: 12 Changes to be offered in the Department of Political Science

FROM		TO	
Departments	Political Science	Departments	NC
Course	POL 409 Colloquium for Research in Government and Politics	Course	NC
Prerequisite	ENG 201, POL 225, any 300-level or above political science (POL or GOV) course, enrolled in the Political Science major, and senior standing.	Prerequisite	ENG 201, POL 225, any 300-level or above political science course (POL), enrolled in the Political Science major, and senior standing.
Hours	3	Hours	3
Credits	3	Credits	3
Description	This course is a research colloquium in which students initiate, develop, and present independent work related to government, politics and the state. The diversity of projects undertaken by students emphasizes the breadth of concerns related to government, law, and politics, identifying emerging scholarly interests and concerns. Students design research		<u>This course is a research colloquium in which students initiate, develop, and present independent work related to government, politics, and the state. The diversity of projects undertaken by students emphasizes the breadth of concerns related to government, law, and politics, identifying emerging scholarly interests and concerns.</u>

	projects in conjunction with faculty instructors and report regularly on progress to the seminar. The final research paper will demonstrate the student's familiarity with relevant literature in the subfield, competence in research, research methods, writing and analysis, and the mastery of basic concepts in the discipline. In addition, the course will integrate the various subfields of the discipline through the examination of current research.		<u>Students design projects in conjunction with faculty instructors and report regularly on progress to the seminar. The final project will demonstrate the student's familiarity with relevant literature in the subfield, competence in research, research methods, writing and analysis, and the mastery of basic concepts in the discipline.</u>
Requirement Designation		Requirement Designation	
Liberal Arts	[X] Yes [] No	Liberal Arts	[X] Yes [] Not
Course Attribute		Course Attribute	
General Education Component	___X___ Not applicable	General Education Component	NC
Effective		Effective	Fall 2021

Rationale: Students in the capstone course are expected to produce independent research. When the course was originally created, integration of the subfields of political science may have been a part of the expectation for the capstone experience. It has not, nor has it ever, been consistently taught in that manner. We are, therefore, removing the last sentence of the current description. The proposed prerequisites are essentially the same as the current prerequisites. We are removing the prefix "GOV" since we no longer use that to refer to political science courses.

AV: 13 Changes to be offered in the Department of Sociology

FROM		TO	
Departments	Sociology	Departments	NC
Course	SOC 385 Selected Topics in Criminology	Course	NC
Prerequisite	ENG 201 and SOC 203	Prerequisite	ENG 201 and <u>SOC 101</u>
Hours	3	Hours	3
Credits	3	Credits	3
Description	The course will study a significant topic of interest in the field to be chosen by the instructor.		The course will study a significant topic of interest in the field <u>of criminology</u> to be chosen by the instructor.
Requirement Designation		Requirement Designation	
Liberal Arts	[X] Yes [] No	Liberal Arts	NC
Course Attribute		Course Attribute	
General Education Component	<u> X </u> Not applicable	General Education Component	NC
Effective		Effective	Fall 2021

Rationale: We have recently aligned all our 300 courses in the Criminology Major to have these pre-reqs (ENG 202 and SOC 101) in order to make it easier for students, especially transfer students to take classes. In addition, dropping the SOC 203 pre-req makes SOC 385 available to a broader group of students across the campus outside of our majors and avoids the need for waivers and/or faculty permissions.