

Baruch College
October 2019 Academic University Report Detail

PART A: ACADEMIC MATTERS

The following recommendations of the Committee on Undergraduate Curriculum were approved at the Mildred and George Weissman School of Arts and Sciences Faculty Meeting on April 30, 2019 effective the Fall 2020 semester, pending approval of the Board of Trustees.

Section AllI: Changes in Degree Programs

AllI.1.1 The following revisions are proposed for the BA in Business Communication; Graphic Communication Specialization

Program: BA in Business Communication
Program Codes: 86011 and 60002 (Macaulay Honors)
HEGIS Code: 0699.00
Effective: Fall 2020

FROM			TO		
<p>The business communication major is designed for students who are interested in careers in business journalism, corporate communication, or graphic communication. Because the business communication field is essentially interdisciplinary in nature, the program integrates courses from several departments in the Weissman School of Arts and Sciences and the Zicklin School of Business. The graphic communication specialization provides training in graphics as well as basic training in the broader aspects of business communication. It prepares the graphic artist to enter a business environment.</p>			<p>The business communication major is designed for students who are interested in careers in business journalism, corporate communication, or graphic communication. Because the business communication field is essentially interdisciplinary in nature, the program integrates courses from several departments in the Weissman School of Arts and Sciences and the Zicklin School of Business. The graphic communication specialization provides training in graphics as well as basic training in the broader aspects of business communication. It prepares the graphic artist to enter a business environment.</p>		
Program Prerequisites 42 credits			Program Prerequisites <u>15</u> credits		
Course	Description	Crs	Course	Description	Crs

CIS 2200	Introduction to Information Systems and Technologies (Students must complete BUS 1000 as a course prerequisite)	3 credits	<u>BUS 1011</u>	<u>Business Fundamentals: The Contemporary Business Landscape</u>	<u>3 credits</u>
MKT 3000	Marketing Foundations	3 credits		or	
MGT 3120	Fundamentals of Management	3 credits	<u>BUS 1000</u>	<u>Introduction to Business</u>	<u>3 credits</u>
STA 2000	Business Statistics I	3 credits	CIS 2200	Introduction to Information Systems and Technologies	3 credits
	or		MKT 3000	Marketing Foundations	3 credits
PSY/STA 2100	Statistics for Social Science	3 credits	MGT 3120	Fundamentals of Management	3 credits
	or		STA 2000	Business Statistics I	3 credits
ECO 1001	Micro-Economics	3 credits		or	
	or		PSY/STA 2100	Statistics for Social Science	3 credits
ECO 1002	Macro-Economics	3 credits		or	
	or		ECO 1001	Micro-Economics	3 credits
ECO 1110	Current Economic Problems	3 credits		or	
			ECO 1002	Macro-Economics	3 credits
				or	
			ECO 1110	Current Economic Problems	3 credits
Credits Required for the Major:		30 credits	Credits Required for the Major:		30 credits
Interdisciplinary Core		12 credits	Interdisciplinary Core		12 credits
Business Communication			Business Communication		
JRN 3150	Business Communication (for business writing and graphic communication students only)	3 credits	JRN 3150	Business Communication (for business writing and graphic communication students only)	3 credits
Marketing/Advertising (Choose one course)			Marketing/Advertising (Choose one course)		

MKT 3520	Advertising and Marketing Communications	3 credits	MKT 3520	Advertising and Marketing Communications	3 credits
MKT 3600	Marketing Research (Students must complete STA 2000 as a course prerequisite)	3 credits	MKT 3600	Marketing Research (Students must complete STA 2000 as a course prerequisite)	3 credits
MKT 3605	Consumer Behavior	3 credits	MKT 3605	Consumer Behavior	3 credits
Management (Choose one course)			Management (Choose one course)		
MGT 3300	Management: A Behavioral Approach	3 credits	MGT 3300	Management: A Behavioral Approach	3 credits
MGT 3800	Management and Society	3 credits	MGT 3800	Management and Society	3 credits
Business or Liberal Arts Elective			Business or Liberal Arts Elective		
One business or arts and sciences elective (at the 2000 level or above) to be selected upon consultation with the program advisor and with the advisor's approval.		3 credits	One business or arts and sciences elective (at the 2000 level or above) to be selected upon consultation with the program advisor and with the advisor's approval.		3 credits
Specialization Requirements		18 credits	Specialization Requirements		18 credits
Required Courses		12 credits	Required Courses		12 credits
ART 2050	Basic Graphic Communication: Design and Advertising Layout	3 credits	ART 2050	Basic Graphic Communication: Design and Advertising Layout	3 credits
ART 3050	Intermediate Graphic Communication: Publication Design	3 credits	ART 3050	Intermediate Graphic Communication: Publication Design	3 credits
ART 3058	Graphic Communication: Print Production and History	3 credits	ART 3058	Graphic Communication: Print Production and History	3 credits
ART 5010	Graphic Communication Internship	3 credits	<u>ART 5900</u>	<u>Senior Seminar</u>	3 credits
Elective Courses		6 credits	Elective Courses		6 credits

(Choose two courses)			(Choose two courses)		
ART 2060	Basic Photography	3 credits	ART 2060	Basic Photography	3 credits
ART 3041	Special Topics in Art (Studio)	3 credits	ART 3041	Special Topics in Art (Studio)	3 credits
ART 3055	Branding Design: Strategies and Practice	3 credits	ART 3055	Branding Design: Strategies and Practice	3 credits
ART 3056	Typography: History and Application	3 credits	ART 3056	Typography: History and Application	3 credits
ART 3057	Principles of Internet Design	3 credits	ART 3057	Principles of Internet Design	3 credits
ART 3059	Animation and Motion Graphics (NMA 3059)	3 credits	ART 3059	Animation and Motion Graphics (NMA 3059)	3 credits
ART 3061	Digital Photography (NMA 3061)	3 credits	ART 3061	Digital Photography (NMA 3061)	3 credits
ART 3241	Art of the Twentieth Century (prerequisite: ART 1011 or ART 1012, which may be applied to the base curriculum)	3 credits	ART 3241	Art of the Twentieth Century (prerequisite: ART 1011 or ART 1012, which may be applied to the base curriculum)	3 credits
ART 3242	History of Modern Design (prerequisite: ART 1011 or ART 1012, which may be applied to the base curriculum)	3 credits	ART 3242	History of Modern Design (prerequisite: ART 1011 or ART 1012, which may be applied to the base curriculum)	3 credits
ART 4055	Design for Non-Profit Organizations	3 credits	ART 4055	Design for Non-Profit Organizations	3 credits
ART 5000	Independent Study	3 credits	ART 5000	Independent Study	3 credits
ART 5010-5011	Graphic Communication Internship	3 credits	ART 5010-5011	Graphic Communication Internship	3 credits
Subtotal: 42 credits (Program Prerequisites, Interdisciplinary Core, Required Courses, and Major Electives) Total credits required for the BA degree: 120			Subtotal: <u>45</u> credits (Program Prerequisites, Interdisciplinary Core, Required Courses, and Major Electives) Total credits required for the BA degree: 120		

Rationale: While assessing the major, faculty in the Fine and Performing Arts department learned that students require more preparation before they are ready to head into the increasingly complex graphic communication industry. This preparation includes conceptual development skills along with practical knowledge of industry standards.

The current requirement of ART 5010 (Internship) forces students who are unprepared for even semi-professional practice into the workplace. This is not a recipe for success. While a minority of students are ready to embark on an internship, the majority of them need a structured environment where they can develop a professional portfolio, learn about professional standards, and carry out an advanced research/design project. The new course proposed by the department, ART 5900 Senior Seminar, will provide students with the necessary preparation for successful entry into the industry as well as the conceptual development skills to become the thought leaders we know they can be.

Faculty in the department recognize the importance of internships to all of our students. ART 5010 (Internship) will still be available to our students as an elective course should a student already possess the requisite preparation, and we would encourage our prepared students to pursue internships.

The ART 5010 requirement has grown increasingly unwieldy for the department as the number of majors has grown while the number of full time faculty has not. We currently have three full time faculty who can oversee Internship and Independent Study students. There can be as many as thirty such students in any semester. That often leaves each of us with ten students, the maximum allowed for a single professor in a semester. And during semesters when any of the three of us are on leave, we have an overload. We are delighted that our program continues to grow, but mindful that the current design of the program leaves us stretched thin at a time when the likelihood of adding full time faculty keeps decreasing. This change in program addresses the problem by shifting from a one-to-one teaching model to a classroom setting.

The program prerequisite section is being updated to include the implied CIS 2200 course prerequisite (either BUS 1000 or BUS 1011).

Section AIV. New Courses

AIV.1.1

Department(s)	Communication Studies
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	Communication Studies
Course Prefix	COM
Course Number	3084
Course Title	Communication in Intercultural and International Conflicts
Catalogue Description	This course focuses on theoretical and practical approaches to conflicts in intercultural and international communication contexts. Students examine the causes, expressions, and consequences of intercultural and international conflicts as well as conflict resolution principles, applications, and assessments. Topics include communication in intercultural conflicts within and across national borders, international conflict negotiation and peacebuilding, differences in conflict communication styles, factors that influence conflicts processes, and organizational responses to intercultural and international conflict.
Prerequisites	COM 1010
Credits	3
Contact Hours	3
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc.)	
Course Applicability	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures <input type="checkbox"/> Mathematics <input type="checkbox"/> US Experience in its Diversity College Option Detail _ <input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Fall 2020

Rationale: Courses in intercultural and international conflict communication are standard in majors focused on intercultural and international communication. The course Communication in Intercultural and International Conflicts was conceived

foremost to serve as an elective in the Intercultural and International Communication concentration in the Communication Studies major and will provide a valuable choice for students preparing to enter careers in intercultural training, international development, and diplomacy.

COM 3084 will be offered once per year with a projected enrollment of 28 students. It will serve as a concentration elective [**Intercultural and International Communication** or **Rhetoric and Public Advocacy**] and as a major elective within the Communication Studies major (NYSED program codes 36820 and 39850); an elective within the Business Communication major with specialization in Corporate Communication (NYSED program codes 86011 and 60002); an elective within the minor in Communication Studies; or as a general elective for the BA, BBA, and BS degrees for new and continuing students.

AIV.1.2

Department(s)	Communication Studies
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 Areas	Communication Studies
Course Prefix	COM
Course Number	3120
Course Title	Platforms, Power, and Publics
Catalogue Description	This course combines rhetorical, critical, and cultural approaches to the study of social media, with a particular focus on concerns about power that are shared by communication scholars; media, policy, and technology journalists and professionals; and the public at large. In doing

	so, we will examine the economic structure, sociocultural dynamics, and political implications of prominent social networking platforms.
Prerequisites	COM 1010
Credits	3
Contact Hours	3
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc.)	
Course Applicability	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures <input type="checkbox"/> Mathematics <input type="checkbox"/> US Experience in its Diversity College Option Detail _ <input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Fall 2020

Rationale: Social media and networking platforms structure many of our personal, social, economic, political, and cultural practices and experiences. This course combines critical, cultural and rhetorical approaches to the study of social media. Topics may include the economics of attention governing social platforms; persuasive constructions of social media selfhood and identity; the language and meaning of social media relationships and publicity; the meanings and strategic uses of “privacy” under constant surveillance; the relationship between discourse, algorithms, and platform logics; and, the role of social media in framing the world of meaning and public discourse. By studying these aspects of social media, we will explore and examine what it can teach us about how we live and experience 21st-Century culture and society.

COM 3120 will be offered once per year with a projected enrollment of 28 students. It will serve as a concentration elective [**Digital Communication and Culture** or **Rhetoric and Public Advocacy**] and as a major elective within the Communication Studies major (NYSED program codes 36820 and 39850); an elective within the Business

Communication major with specialization in Corporate Communication (NYSED program codes 86011 and 60002); an elective within the minor in Communication Studies; or as a general elective for the BA, BBA, and BS degrees for new and continuing students.

AIV.1.3

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	English
Course Prefix	ENG
Course Number	4560
Course Title	Mixed-Race Literature
Catalogue Description	This course is an intensive study of some of the major works of American literature focusing on the experiences of mixed-race people. The course may concentrate on literature about black-white biraciality or on literature about a different mixed-race demographic, depending on the instructor. Possible authors include Charles Chesnutt, James Weldon Johnson, Nella Larsen, Jean Toomer, Philip Roth, Danzy Senna, and Barack Obama.
Prerequisites	ENG/CMP/LIT 2800 or 2850, or departmental permission.
Credits	3
Contact Hours	3
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc.)	
Course Applicability	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures <input type="checkbox"/> Mathematics <input type="checkbox"/> US Experience in its Diversity College Option Detail <input type="checkbox"/>

	<input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Fall 2020

Rationale: In the decades since multiethnic literature (e.g., African American, Latinx, Asian American) first became a division within literary studies, ideas about race in the U.S. have grown increasingly complex, both in the mainstream and in scholarship. Today, for example, we find people of mixed racial origins availing themselves in unprecedented numbers of the freedom not to choose one of their racial identities over the others; indeed, since the year 2000, respondents to the U.S. Census have been able to identify as belonging to more than one racial group. Meanwhile, “mixed-race” has become an ever more important category of analysis in scholarship in both the humanities and the social sciences.

In focusing on literature about mixed-race people, this course would contribute significantly to Baruch’s core commitment to diversity and inclusion. As one of the first of its kind among English departments across the nation, it would aid in further positioning Baruch as a leader on this crucial front. Because so much mixed-race literature is devoted to exposing the contradictions inhering in the construct of race, the course would help to move students toward developing the kinds of critical attitudes toward race necessary for a culturally inclusive society. Finally, this course also would help satisfy a need in the English Department not only for more capstone-level courses but specifically for more capstones that focus on race. There is great demand on the part of students for more race-based capstones: the three now included in the course catalogue routinely fill, if not overflow.

ENG 4560 will be offered once every two years with a projected enrollment of 25 students. It may be used as an elective within the English major (NYSED program codes 01956 and 60009), as an elective or as a capstone course within the English minor, or as a general elective for the BA, BBA, and BS degrees for new and continuing students.

AIV.1.4

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	English
Course Prefix	ENG
Course Number	4950

Course Title	Advanced Topics in Language, Literature, or Film
Catalogue Description	This course provides an opportunity at the capstone level to study theoretical frameworks, advanced research methods, and important subject matter not found or only touched upon in existing courses. This format allows for an intensive examination of these topics. Representative subjects include but are not limited to: performance studies; single author investigations; advanced studies in rhetoric; literacy and pedagogy studies; cultural historical investigations of literary movements; multimodal and digital composing; the serial genre on television; and gender, myth, and literature. [Students may enroll more than once in ENG 4950 if the topic is different; F replacement is allowed only for the same topic or via an independent study, to be confirmed on a case-by-case basis.]
Prerequisites	ENG/CMP/LIT 2800 or 2850, or departmental permission.
Credits	3
Contact Hours	3
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc.)	
Course Applicability	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures <input type="checkbox"/> Mathematics <input type="checkbox"/> US Experience in its Diversity College Option Detail <input type="checkbox"/> <input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> <input type="checkbox"/> Individual and Society <input type="checkbox"/> <input type="checkbox"/> Scientific World
Effective Term	Fall 2020

Rationale: The English department has long used special topics classes at the 3000 level (3940, 3950, and 3960) to explore concepts and texts outside the existing catalog of courses. The department seeks the option of more intensive, research-driven focus on such topics, in keeping with the learning goals of capstone-level courses. On occasion, students

have been able to do extra theoretical readings and a research component (usually including an annotated bibliography) so that a 3950 could be used to count as a capstone, but this model does not afford a full capstone experience for students; we seek to create a learning environment where all students are working at an advanced level and broadening their disciplinary depth, theoretical knowledge, and research skills. ENG 4950 will allow for more challenging readings and course materials as well as more extensive writing and research.

ENG 4950 will be offered twice per year with a projected enrollment of 25 students. It may be used as an elective within the English major (NYSED program codes 01956 and 60009), as an elective or as a capstone course within the English minor, or as a general elective for the BA, BBA, and BS degrees for new and continuing students.

AIV.1.5

Department(s)	Fine and Performing Arts
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	Art
Course Prefix	ART
Course Number	5900
Course Title	Senior Seminar
Catalogue Description	This course will assist the advanced graphic communications student in the transition from school to professional life. Course content includes the development and design of a professional portfolio, study of professional practices, and a senior project focused on designing for social change. Through presentations, in-class exercises, demonstrations, guest lectures with industry specialists, and community-based work, students prepare their body of work and themselves for entry into the professional world of graphic communications.
Prerequisites	This course is open ONLY to students majoring in Business Communication with a Specialization in Graphic Communication. Prerequisites: ART 2050, 3050, 3058, plus one 3000 or 4000-level ART course selected from the list of approved major electives (ART 3041, ART 3055, ART 3056, ART 3057, ART 3059, ART 3061, ART 3241, ART 3242, or ART 4055)
Credits	3
Contact Hours	4

Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc.)	
Course Applicability	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures <input type="checkbox"/> Mathematics <input type="checkbox"/> US Experience in its Diversity College Option Detail <input type="checkbox"/> <input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> <input type="checkbox"/> Individual and Society <input type="checkbox"/> <input type="checkbox"/> Scientific World
Effective Term	Fall 2020

Rationale: After assessing the Graphic Communication specialization of the Business Communication major, the department discovered that their students require more preparation before they are ready to head into the increasingly complex graphic communication industry. This preparation includes conceptual development skills along with practical knowledge of industry standards.

The major currently requires ART 5010, Internship, as the capstone. The faculty has observed that this requirement forces students who are unprepared for even semi-professional practice into the workplace. This is not a recipe for success. While a minority of our students are ready to embark on an internship, the majority of our students need a structured environment where they can carry out an advanced research/design project, develop a professional portfolio, and learn about professional standards. This new course will provide students with the necessary preparation for successful entry into the industry as well as the conceptual development skills to become the thought leaders we know they can be.

ART 5900 includes the essentials for a successful job search such as: preparation of a digital portfolio; writing and design of a resume; preparation of a cover letter; and researching employment and internship opportunities. This process includes several one-on-one meetings with the professor to develop a portfolio that reflects a student's strengths and interests. The course also includes practical information to run a successful business as a free-lancer, or to work within an established firm. Guest lecturers including head-hunters, creative recruiters of large and small firms, and practicing professionals will make presentations and work with the students.

The course also includes a senior project in social design where students use professional design practices to create social change. Traditional graphic design supports commerce. Social design supports a community. In social design we use problem-solving and design thinking in service of social change. Through community-based projects with non-profit organizations, students explore the many roles creative professionals can play when executing socially-minded work. Students will be challenged to expand their comprehension of design problem solving for new audiences. Design teams will develop skills in design methodology for visual communication: identifying problems, design research, ideation, and implementation. This course offers community service opportunities with activities relating to theories and strategies presented.

This course is open only to students majoring in Business Communication with a Specialization in Graphic Communication. The majority of our students would be taking this class in their penultimate or final semester of study at Baruch.

ART 5900 will be offered every semester with a projected enrollment of 24 students. It will serve as a required course for the Business Communication major with specialization in Graphic Communication (NYSED program codes 86011 and 60002) for students officially declaring as of the fall 2020 semester. Continuing students who previously declared the Business Communication major/Graphic Communication specialization may use this course as a major elective or as a general elective for the BA degree.

Section AV. Changes in Existing Courses

AV.1.1 Change in Course Prerequisites to be offered by the Communication Studies Department

CUNYfirst Course ID	090763		
FROM		TO	
Departments	Communication Studies	Departments	n/c
Course	COM 5010 Internship in Business and Public Communication	Course	n/c
Prerequisite	Departmental permission.	Prerequisite	Departmental permission. <u>Open to Corporate Communication and Communication Studies majors.</u>

			<p><u>For Corporate Communication majors:</u> <u>Two of the required COM courses (COM 3068, COM 3102, COM 3150); one of the COM electives in the major; MGT 3120; and MKT 3000.</u></p> <p><u>For Communication Studies majors:</u> <u>COM 1010; COM 2000; one elective in the declared major concentration and one the following courses:</u></p> <p><u>COM 3045 (for students in the Rhetoric and Public Advocacy concentration)</u></p> <p><u>COM 3057 (for students in the Digital Communication and Culture concentration)</u></p> <p><u>COM 3069 (for students in the Intercultural and International Communication concentration)</u></p> <p><u>COM 3077 (for students in the Interpersonal and Group Communication concentration)</u></p>
Hours	8 - 10 hours plus periodic conferences with internship coordinator	Hours	n/c
Credits	3	Credits	n/c
Description	Students work in an organization appropriate to the major and under the supervision of both professional	Description	n/c

	mentors and a faculty internship coordinator. Students contribute to online discussions, attend scheduled meetings, and submit a term report. (Students conduct a search and arrange interviews during the semester prior to requesting permission to enroll in the internship course. Prior to accepting a specific internship, students submit a brief proposal to the internship coordinator requesting approval and permission to register for the course. Students capabilities and organizational interests will be considered in approving appropriate internship sites.)		
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures	General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures

	<input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World		<input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: The official prerequisites are being updated to give students an indication of which major courses must be completed before seeking department permission to register. This information has always been provided to students who declare the major or who make inquiries in the Communication Studies department, but it is not currently listed in the bulletin or CUNYfirst course descriptions.

AV.1.2 Change in Course Prerequisites, Description, and F-replacement policy to be offered by the Mathematics Department

CUNYfirst Course ID	137223		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 1023 Intermediate and College Algebra	Course	n/c
Prerequisite	Placement	Prerequisite	Placement <u>in M100, CSTM 120, or MTH 1023</u>
Hours	4.5	Hours	n/c
Credits	2	Credits	n/c
Description	This course develops the algebraic topics that are needed for most basic quantitative courses at the college, including factoring, quadratics, linear equations, rates of change, rational and irrational expressions, functions and their graphs, non-linear systems of equations and related applications.	Description	This course develops the algebraic topics that are needed for most basic quantitative courses at the college, including factoring, quadratics, linear equations, rates of change, rational and irrational expressions, functions and their graphs, non-linear systems of equations and related applications.

			<p><u>Note: Students who fail MTH 1023 in the spring semester have the option of taking courses in the Immersion Summer Program or in the regular summer session, and may complete coverage of the content of MTH 1023 by completing FSPM 0121 and either FSPM 1031 or MTH 1030. Consequently, either FSPM 1031 or MTH 1030 may be used to replace the F grade in MTH 1023.</u></p>
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World	General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World

Effective		Effective	Fall 2020
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Rationale: CUNY policy states that students who are proficient in mathematics must be permitted to enroll in a math course that either fulfills a graduation or pathways requirement. Consequently, students who are CUNY Math Proficient may register for MTH 1023 or MTH 2140 or MTH 2160. MTH 1023 has not been offered during the summer sessions. The F-replacement option is being revised to give students who fail MTH 1023 the opportunity to repeat the course material without delaying their progression through their math sequence.

AV.1.3 Change in Course Title and Description to be offered by the Mathematics Department

CUNYfirst Course ID	093135		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 2003 Precalculus and Elements of Calculus	Course	MTH 2003 Precalculus and Elements of Calculus <u>1A</u>
Prerequisite	MTH 1030 or by Placement Examination	Prerequisite	n/c
Hours	4	Hours	n/c
Credits	3	Credits	n/c
Description	This course will integrate material from precalculus with introductory topics from applied calculus, including a detailed study of functions, limits and continuity, the circle, tangent lines, rates of change, differentiation of algebraic functions, matrices and linear systems of equations. Applications from economics and finance will be included and the use of the TI 89/92 calculator as well as Excel will be	Description	This course will integrate material from precalculus with introductory topics from applied calculus, including a detailed study of functions, limits and continuity, the circle, tangent lines, rates of change, differentiation of algebraic functions, matrices and linear systems of equations. Applications from economics and finance will be included, and the use of the TI 89/92 calculator will be required. (Not open to students who have completed MTH 2000, 2001, 2205, 2206, 2207,

	required. (Not open to students who have completed MTH 2000, 2001, 2205, 2206, 2207, 2610, 2030 , or any course at the 3000 level or above.)		2610, <u>2630</u> , or any course at the 3000 level or above.)
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input checked="" type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World	General Education Component	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input checked="" type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: The Mathematics department is renaming the courses in the precalculus and calculus tracks to better reflect their content. This will also improve articulation with other colleges. The minor changes in description correct an error in the previous description and remove the mention of Excel, which is not required for the course.

AV.1.4 Change in Course Prerequisites to be offered by the Mathematics Department

CUNYfirst Course ID	116391		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 2140 Mathematics and Quantitative Reasoning	Course	n/c
Prerequisite	Placement into CSTM 0120 or higher	Prerequisite	Placement in <u>M100</u> , CSTM 120, or <u>MTH 2140</u>
Hours	4	Hours	n/c
Credits	3	Credits	n/c
Description	<p>This course is designed to introduce students to thinking critically and applying it to problem solving. It will review the necessary basic skills while examining problems in financial management, statistical reasoning, basic notions in probability, and applications in the arts, politics, and business. (MTH 2140 is not recommended for students whose major requires a statistics course or another math course. It does not meet the BBA base curriculum math requirement.) This course is not open to students who completed any other mathematics course numbered 2000 or higher.</p> <p>MTH 2140 and MTH 2160 may substitute for each other in the F-replacement policy. The policy on repeating courses covers MTH 2140 and MTH 2160, e.g., one course</p>	Description	n/c

	taken three times, each course taken once, or a one-and-two combination. All combinations will be treated identically as three attempts.		
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input checked="" type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World	General Education Component	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input checked="" type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: CUNY policy states that students who are proficient in mathematics must be permitted to enroll in a math course that either fulfills a graduation or pathways requirement. Consequently, students who are CUNY Math Proficient may register for MTH 1023 or MTH 2140 or MTH 2160.

AV.1.5 Change in Course Prerequisites to be offered by the Mathematics Department

CUNYfirst Course ID	093150		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 2160 Ideas in Mathematics and Their Applications	Course	n/c
Prerequisite	Placement into CSTM 0120 or higher	Prerequisite	Placement <u>in M100, CSTM 120, or MTH 2160</u>
Hours	4	Hours	n/c
Credits	3	Credits	n/c
Description	<p>This course is designed for the liberal arts student who wants to sample the intellectual breadth of mathematics. Topics are chosen which are representative of the following fields: number theory, infinity in mathematics, geometry and topology, modern physics, computer arithmetic, set theory, the history of mathematics, probability and statistics, and graph theory. Applications of the ideas are presented wherever feasible. Some possible topics include: primality, the nature and representation of numbers, the Euclidean Algorithm, numerical approximation, geometric and sequences and series, cardinality, the bridges of Koenigsberg problem, projective</p>	Description	n/c

	<p>geometry, non-Euclidean geometry, relativity, binary arithmetic, symbolic logic, the life of a selected mathematician, games of chance, misusing data, planar graphs, and network analysis. (MTH 2160 is not recommended for students whose major requires a statistics course or another math course. It does not meet the BBA base curriculum math requirement. This course is not open to any student who completed any other mathematics course numbered 2000 or higher.</p> <p>MTH 2140 and MTH 2160 may substitute for each other in the F-replacement policy. The policy on repeating courses covers MTH 2140 and MTH 2160, e.g., one course taken three times, each course taken once, or a one-and-two combination. All combinations will be treated identically as three attempts.</p>		
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	

General Education Component	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input checked="" type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World	General Education Component	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input checked="" type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: CUNY policy states that students who are proficient in mathematics must be permitted to enroll in a math course that either fulfills a graduation or pathways requirement. Consequently, students who are CUNY Math Proficient may register for MTH 1023 or MTH 2140 or MTH 2160.

AV.1.6 Change in Course Title to be offered by the Mathematics Department

CUNYfirst Course ID	093155		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 2205 Applied Calculus	Course	MTH 2205 <u>Precalculus and Elements of Calculus 1B</u>
Prerequisite	MTH 2003 or MTH 2009 with a grade of C- or better.	Prerequisite	n/c
Hours	4	Hours	n/c
Credits	3	Credits	n/c

Description	This course will include the first and second derivative tests, optimization, including Lagrange multipliers, exponential and logarithmic functions, Riemann sums, areas, antiderivatives, and business applications. This course is not open to students who have completed MTH 2201, 2206, 2207 or 2610.	Description	n/c
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input checked="" type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World	General Education Component	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input checked="" type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: The department is renaming the courses in the precalculus and calculus tracks to better reflect their content. This will also improve articulation with other colleges.

AV.1.7 Change in Course Title to be offered by the Mathematics Department

CUNYfirst Course ID	093157		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 2207 Applied Calculus and Matrix Applications	Course	MTH 2207 <u>Elements of Calculus I and Matrix Algebra</u>
Prerequisite	Placement or completion of MTH 2000 or MTH 2001, or the equivalent with a grade of C- or better.	Prerequisite	n/c
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	This course contains the calculus included in MTH 2003 and MTH 2205 and the matrix algebra found in MTH 2003. Topics to be discussed include algebra of matrices; inverses; systems of linear equations; Gaussian elimination; intuitive and geometric definitions of the limit; derivatives of algebraic, exponential and logarithmic functions; optimization problems; related rates; curve sketching and an introduction to integration. Not open to students who have completed MTH 2003, 2205, or 2610.	Description	n/c

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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input checked="" type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World	General Education Component	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input checked="" type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: The Mathematics department is renaming the courses in the precalculus and calculus tracks to better reflect their content. This will also improve articulation with other colleges.

AV.1.8 Change in Course Title to be offered by the Mathematics Department

CUNYfirst Course ID	093164		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 3006 Integral Calculus	Course	MTH 3006 <u>Elements of</u> Calculus II

Prerequisite	A grade of C+ or higher in MTH 2205, 2206, or 2207, or departmental permission.	Prerequisite	n/c
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	<p>This course is designed to provide the student who has completed MTH 2205, MTH 2206, or MTH 2207 with the background needed for completion of the calculus sequence. Topics to be discussed include implicit differentiation, related rates, antiderivatives, definite integrals with applications, fundamental theorem of calculus, properties of trigonometric and inverse trigonometric functions, methods of integration, limits, and indeterminate forms.</p> <p>Not open to students who have completed MTH 2610, 2630, or 3010.</p>	Description	n/c
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required	General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required

	<input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World		<input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: The Mathematics department is renaming the courses in the precalculus and calculus tracks to better reflect their content. This will also improve articulation with other colleges.

AV.1.9 Change in Course Title to be offered by the Mathematics Department

CUNYfirst Course ID	093165		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 3010 Elementary Calculus II	Course	Calculus II
Prerequisite	A grade of C- or better in MTH 2610, or an AP Calculus AB score of 4 or 5.	Prerequisite	n/c
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	Topics to be discussed include transcendental functions, techniques of integration, improper integration, numerical integration, Taylor polynomial, sequences, infinite	Description	n/c

	series, convergence tests, power series and applications. Not open to students who have completed MTH 2630, 3006, or 3030.		
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World	General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: The Mathematics department is renaming the courses in the precalculus and calculus tracks to better reflect their content. This will also improve articulation with other colleges.

AV.1.10 Change in Course Title to be offered by the Mathematics Department

CUNYfirst Course ID	093166		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 3020 Intermediate Calculus	Course	MTH 3020 Calculus <u>III</u>
Prerequisite	A grade of C- or better in MTH 3007, or MTH 3010, or an AP Calculus BC score of 4 or 5	Prerequisite	n/c
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	<p>Topics to be discussed include conics, parametric equations, polar coordinates, vectors in the plane and three dimensional space, multivariable calculus; chain rules, implicit functions, change of variables in multiple integrals; limits, continuity, and differentiability.</p> <p>Not open to students who have completed MTH 3030, or MTH 3050.</p>	Description	n/c
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	

General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World	General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: The Mathematics department is renaming the courses in the precalculus and calculus tracks to better reflect their content. This will also improve articulation with other colleges.

AV.1.11 Change in Course Title to be offered by the Mathematics Department

CUNYfirst Course ID	093168		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 3030 Analytic Geometry and Calculus II	Course	MTH 3030 <u>Elements of Calculus III</u>
Prerequisite	MTH 2630 or a grade of C- or better in MTH 3006	Prerequisite	n/c
Hours	5	Hours	n/c
Credits	5	Credits	n/c

Description	<p>Topics to be discussed include elements of solid geometry, level curves and surfaces, vectors in space and their properties, differential calculus of functions of several variables, infinite sequences and series, convergence tests, Taylor's formula with remainder, Taylor series expansion of functions, and analytic functions.</p> <p>Not open to students who have completed MTH 3010, MTH 3020, or MTH 3050. Not open to students who completed MTH 3007 with a grade of C- or better.</p>	Description	n/c
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures	General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures

	<input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World		<input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: The Mathematics department is renaming the courses in the precalculus and calculus tracks to better reflect their content. This will also improve articulation with other colleges.

AV.1.12 Change in Course Title to be offered by the Mathematics Department

CUNYfirst Course ID	126882		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 3050 Multi-Variable and Vector Calculus	Course	MTH 3050 <u>Calculus III</u> and Vector Calculus
Prerequisite	MTH 3007 with B+ or higher, or MTH 3010 with B+ or higher, or an AP Calculus BC score of 4 or 5.	Prerequisite	n/c
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	In this course, the primary goal is to study the geometry of change in two and three dimensional space. In particular, we use vectors to describe curves and surfaces in space mathematically, and to study the derivatives (rates of change) and integrals (average properties) of	Description	n/c

	<p>functions and vector fields that are defined on curves and surfaces. The unity between geometry and algebra is most succinctly expressed in the four versions of the Fundamental Theorem of Calculus that we study: the fundamental theorem of calculus for vector fields on curves, Green's theorem, Stokes' theorem, the Divergence theorem and applications. The emphasis will be on understanding the geometry behind numerous algebraic manipulations, while providing a bit more focus on mathematical concepts.</p> <p>Not open to students who have completed MTH 3020, MTH 3030, or MTH 3035.</p>		
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science	General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science

	<input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World		<input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: The Mathematics department is renaming the courses in the precalculus and calculus tracks to better reflect their content. This will also improve articulation with other colleges.

AV.1.13 Change in Course Prerequisites and Credits to be offered by the Mathematics Department

CUNYfirst Course ID	093204		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 4320 Fundamental Algorithms	Course	n/c
Prerequisite	MTH 3006 or MTH 3010 or MTH 3030, AND MTH 3300 or CIS 3100 or CIS 3120 or CIS 4100	Prerequisite	<u>MTH 3007</u> or MTH 3010 or MTH 3030 <u>with a grade of C+ or higher</u> , AND MTH 3300 or CIS 3100 or CIS 3120 or CIS 4100 <u>with a grade of C+ or higher</u>
Hours	4	Hours	n/c
Credits	3	Credits	<u>4</u>
Description	In this course, one learns how to design efficient algorithms and becomes familiar with common real-world algorithms. Examples include algorithms for data compression,	Description	n/c

	error correcting codes, common graph algorithms such as shortest paths and network flow, and more. The course also includes algorithm techniques such as divide-and-conquer, greedy algorithms, and dynamic programming.		
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"/> No
Course Attribute (e.g. Writing Intensive, WAC, etc.)		Course Attribute (e.g. Writing Intensive, WAC, etc.)	
General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World	General Education Component	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective		Effective	Fall 2020

Rationale: The prerequisites are being updated with minimum grade requirements to reflect the higher level of mathematical knowledge needed for the updated curriculum. MTH 3006 has been removed from the prerequisite list as it

has been determined that students need further mathematical preparation by taking either MTH 3007 or MTH 3030. The number of credits is being changed in conjunction with a previous update related to an enhanced curriculum for this course.

PART A: ACADEMIC MATTERS

The following recommendations of the Curriculum Committee were approved at the Marxe School of Public and International Affairs Faculty Meeting on May 16, 2019. They will be effective for the Fall 2020 semester, pending approval of the Board of Trustees.

Part A: Academic Matters

All: Changes in Degree Programs

All.1.1 The following revisions are proposed for the Specialization in Nonprofit Management in the MPA program in the Marxe School of Public and International Affairs.

Program Code: 01966

HEGIS Code: 2102.00

Effective: Fall 2020

From		To		
Course	Description	Course	Description	Crs
	Requirements for the Specialization in Nonprofit Management in the MPA program		Requirements for the Specialization in Nonprofit Management in the MPA program	
	Core Courses of the MPA (24-27 credits)		Core Courses of the MPA (24-27 credits)	
	Free Electives of the MPA (6 credits)		Free Electives of the MPA (6 credits)	
	Two free elective courses of choice		Two free elective courses of choice	6
	Nonprofit Management Required Courses (6 credits)		Nonprofit Management Required Courses (6 credits)	
PAF 9151	Administration of the Nonprofit Sector and Voluntary Agencies	PAF 9151	Administration of the Nonprofit Sector and Voluntary Agencies	3
PAF 9153	Budgeting and Finance for Nonprofits	PAF 9153	Budgeting and Finance for Nonprofits	3
	Nonprofit Management Elective Courses (6 credits)			

PAF 9109	Government Contracting	3	Nonprofit Management Elective Courses (6 credits)	
PAF 9110	Ethics and Public Decision-Making	3	PAF 9109	Government Contracting 3
PAF 9126	Human Services Administration	3	PAF 9110	Ethics and Public Decision-Making 3
PAF 9136	Urban Economic Development	3	PAF 9126	Human Services Administration 3
PAF 9139	Communication Strategy	3	PAF 9136	Urban Economic Development 3
PAF 9141	Community Development: History, Present, and Future	3	PAF 9139	Communication Strategy 3
PAF 9142	Housing Policy	3	PAF 9141	Community Development: History, Present, and Future 3
PAF 9143	Greening and Growing Cities: Sustainability and Public Policy Choices	3	PAF 9142	Housing Policy 3
PAF 9150	Introduction to the Nonprofit Sector	3	PAF 9143	Greening and Growing Cities: Sustainability and Public Policy Choices 3
PAF 9152	Fund Raising and Grants Administration in Nonprofit and Voluntary Organizations	3	PAF 9150	Introduction to the Nonprofit Sector 3
PAF 9156	Emergency Preparedness, Response, and Recovery	3	PAF 9152	Fund Raising and Grants Administration in Nonprofit and Voluntary Organizations 3
PAF 9157	Introduction to Philanthropy	3	PAF 9156	Emergency Preparedness, Response, and Recovery 3
PAF 9158	Religion, Nonprofits, Politics, and Policy	3	PAF 9157	Introduction to Philanthropy 3
PAF 9160	Public and Nonprofit Management II	3	PAF 9160	Public and Nonprofit Management II 3
PAF 9181	Comparative Public Administration	3	PAF 9181	Comparative Public Administration 3
PAF 9184	International Institutions and Global Governance	3	PAF 9184	International Institutions and Global Governance 3
PAF 9299	Selected Topics in Nonprofit Management	3	PAF 9299	Selected Topics in Nonprofit Management 3
PAF 9410	Global Economic Governance: Pacts, Actors, and Regimes	3	PAF 9410	Global Economic Governance: Pacts, Actors, and Regimes 3
PAF 9430	Diaspora, Migration and Transnational Life in the Western Hemisphere and Beyond.	3	PAF 9430	Diaspora, Migration and Transnational Life in the Western Hemisphere and Beyond. 3
PAF 9710	Health and Health Care	3	PAF 9710	Health and Health Care 3

MGT 9969	Social Entrepreneurship: Concepts and Cases	MGT 9969	<u>Boards, Governance, and Leadership within Entrepreneurial, Family, and Social Enterprises</u>	<u>3</u>
		MGT 9969	Social Entrepreneurship: Concepts and Cases	3
Total credits required for the Nonprofit Management 42-45 Specialization in the Masters of Public Administration (MPA) program		Total credits required for the Nonprofit Management 42-45 Specialization in the Masters of Public Administration (MPA) program		

Rationale: Governance and leadership are two of the most important disciplines at the senior levels of organizations and nonprofits are no exceptions. This course is currently offered in the Management Department at The Zicklin School of Business. While these topics may be tangentially covered in other courses in Nonprofit Administration at Marxe, there are no courses with either Leadership or Governance in the Course Title. It makes sense to teach these topics to both Zicklin and Marxe students, so the course title and contents were changed in consultation with Nonprofit faculty to reflect the needs of the nonprofit sector. PAF 9158 Religion, Nonprofits, Politics, Policy was deleted in the Fall2017 semester.

AI.1.2 The following revisions are proposed for the Specialization in Policy Analysis and Evaluation in the MPA program in the Marxe School of Public and International Affairs.

Program Code: 01966

HEGIS Code: 2102.00

Effective: Fall 2020

From		To		
Course	Description	Course	Description	Crs
Crs				

Requirements for the Specialization in Policy Analysis and Evaluation in the MPA program

Core Courses of the MPA (24-27 credits)

Free Electives of the MPA (6 credits)
Two free elective courses of choice

Policy Analysis and Evaluation Required Courses

PAF 9133 Economics of the Public Sector and Public Finance
PAF 9180 Policy Analysis

Policy Analysis and Evaluation Elective Courses (6 credits)

PAF 9110 Ethics and Public Decision-Making
~~PAF 9125 Human Resources Policy~~
~~PAF 9137 Telecommunications Policy~~
PAF 9142 Housing Policy
PAF 9145 Poverty and Welfare Policy
PAF 9161 Business and Public Policy
PAF 9173 Program Auditing and Performance Measurement
PAF 9174 Program Evaluation
PAF 9177 Advanced Quantitative Methods
PAF 9185 Environmental Policy
PAF 9186 Map Making for Public Policy
PAF 9318 Educational Policy
PAF 9338 Higher Education, Politics and Public Policy
PAF 9699 Selected Topics in Public Policy
PAF 9715 Health Care Policy

Requirements for the Specialization in Policy Analysis and Evaluation in the MPA program

Core Courses of the MPA (24-27 credits)

Free Electives of the MPA (6 credits)
Two free elective courses of choice 6

Policy Analysis and Evaluation Required Courses (6 credits)

PAF 9133 Economics of the Public Sector and Public Finance 3
PAF 9180 Policy Analysis 3

Policy Analysis and Evaluation Elective Courses (6 credits)

PAF 9110 Ethics and Public Decision-Making 3
PAF 9141 Community Development: History, Present, and Future 3
OR
PAF 9142 Housing Policy
PAF 9145 Poverty and Welfare Policy 3
PAF 9161 Business and Public Policy 3
PAF 9173 Program Auditing and Performance Measurement 3
PAF 9174 Program Evaluation 3
PAF 9177 Advanced Quantitative Methods 3
PAF 9185 Environmental Policy 3
OR
PAF 9143 Greening and Growing Cities: Sustainability and Public Policy Choices
PAF 9186 Map Making for Public Policy 3
PAF 9318 Educational Policy 3
PAF 9338 Higher Education, Politics and Public Policy 3

	PAF 9699	Selected Topics in Public Policy	3
	PAF 9715	Health Care Policy	3
	<u>OR</u>	<u>OR</u>	
	<u>PAF 9710</u>	<u>Health and Health Care</u>	
	<u>OR</u>	<u>OR</u>	
	<u>PAF 9766</u>	<u>Health Care Costs and Financing</u>	
Total credits required for the Policy Analysis and Evaluation Specialization in the Masters of Public Administration (MPA) program		Total credits required for the Policy Analysis and Evaluation Specialization in the Masters of Public Administration (MPA) program	42-45

Rationale: There are two proposed changes. First, there are courses on the list of approved electives that have not been taught for some time, and a course that does not fit the overall focus of the specialization. We propose to delete those courses from the list. Second, there are other courses that are currently offered by Marxe School faculty that we believe should be added to the list of approved courses. These additional courses are courses that cover the substance of particular policy areas or provide training in methods and, thus, are appropriate electives for this specialization.

AIII.1.3 The following revisions are proposed for the MEd in Higher Education Administration in the Marxe School of Public and International Affairs.

Program Code: 21853

HEGIS Code: 0827.00

Effective: Fall 2020

Course	Description	Crs	Course	Description	Crs
Requirements for the MEd in Higher Education Administration program	Required Courses (21-24 credits)		Requirements for the MEd in Higher Education Administration program	Required Courses (21-24 credits)	

PAF 9120	Public and Nonprofit Management I	3	PAF 9120	Public and Nonprofit Management I	3
PAF 9308	Administrative Services in Colleges and Universities	3	PAF 9308	Administrative Services in Colleges and Universities	3
PAF 9317	Research for the Educational Administrator	3	PAF 9317	Research for the Educational Administrator	3
Or	Or		Or	Or	
PAF 9170	Research and Analysis 1		PAF 9170	Research and Analysis 1	
PAF 9322*	Internship in Higher Education Administration*	3	PAF 9322*	Internship in Higher Education Administration*	3
PAF 9330	Introduction to U.S. Higher Education: History, Structure, and Policy	3	PAF 9330	Introduction to U.S. Higher Education: History, Structure, and Policy	3
PAF 9336	Student Services in Higher Education	3	PAF 9336	Student Services in Higher Education	3
PAF 9339	The Financing of Higher Education	3	PAF 9339	The Financing of Higher Education	3
PAF 9390	Capstone Seminar in Higher Education Administration	3	PAF 9390	Capstone Seminar in Higher Education Administration	3
Elective Courses (15 credits; select five)			Elective Courses (15 credits; select five)		
PAF 9318	Educational Policy	3	PAF 9318	Educational Policy	3
PAF 9325	Institutional Research	3	PAF 9325	Institutional Research	3
PAF 9332	Information Systems in Higher Education	3	PAF 9332	Information Systems in Higher Education	3
PAF 9333	Curriculum and Instruction in Higher Education	3	PAF 9333	Curriculum and Instruction in Higher Education	3
PAF 9334	Collective Bargaining in Higher Education	3	PAF 9334	Collective Bargaining in Higher Education	3
PAF 9335	The Community College	3	PAF 9335	The Community College	3
PAF 9337	Issues in Urban Higher Education	3	PAF 9337	Issues in Urban Higher Education	3
PAF 9338	Higher Education, Politics, and Public Policy	3	PAF 9338	Higher Education, Politics, and Public Policy	3
PAF 9399	Selected Topics in Educational Administration	3	<u>PAF 9343</u>	<u>International Higher Education: Policies and Practices</u>	<u>3</u>
			<u>PAF 9344</u>	<u>Diversity in Higher Education</u>	<u>3</u>
			<u>PAF 9345</u>	<u>The Law of Higher Education</u>	<u>3</u>

<p>*The internship is required of candidates who have less than one year of experience in an administrative position in higher education.</p> <p>Total credits required for the MEd in Higher Education Administration program 36-39</p>	<table border="0"> <tr> <td data-bbox="1081 188 1312 300"><u>PAF 9346</u></td> <td data-bbox="1312 188 1879 300"><u>Student Development Theory and Practice</u></td> <td data-bbox="1879 188 1980 300"><u>3</u></td> </tr> <tr> <td data-bbox="1081 300 1312 438">PAF 9399</td> <td data-bbox="1312 300 1879 438">Selected Topics in Educational Administration</td> <td data-bbox="1879 300 1980 438">3</td> </tr> </table> <p>*The internship is required of candidates who have less than one year of experience in an administrative position in higher education.</p> <p>Total credits required for the MEd in Higher Education Administration program 36-39</p>	<u>PAF 9346</u>	<u>Student Development Theory and Practice</u>	<u>3</u>	PAF 9399	Selected Topics in Educational Administration	3
<u>PAF 9346</u>	<u>Student Development Theory and Practice</u>	<u>3</u>					
PAF 9399	Selected Topics in Educational Administration	3					

Rationale: Each of these proposed elective courses represents a critical area of high relevance for students pursuing advanced studies in higher education administration. The overriding goal of the HEA Program is to prepare graduates to lead in all segments of college and university administration. This includes awareness of the full range of diverse perspectives and populations in higher education, knowledge of legal challenges for colleges and universities, knowledge of the broad array of theoretical underpinnings of approaches to student development and practice-focused implications of these theories, and a thorough understanding of comparisons between US and international higher education. All of these perspectives and knowledge sets are of great value to potential higher education leaders. Therefore, the HEA faculty conclude that these four courses should be part of the HEA curriculum on an ongoing basis.

Section AIV: New Courses

Program Code:

HEGIS Code:

AIV: 1.1 The following new course is proposed for the MSED in Higher Education Administration program in the Marx School of Public and International Affairs.

CUNYfirst Course ID	PAF 9343
Department(s)	Marxe School of Public and International Affairs
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	Public Affairs
Course Prefix	PAF
Course Number	9343
Course Title	International Higher Education: Policies and Practices
Catalogue Description	<p>The course examines the impact of globalization on higher education systems. Students will identify global, regional, and domestic higher education trends, and analyze how their interactions shape policy agendas. Additionally, students will examine issues such as access, equity, quality, finance, and governance of higher education from an international perspective, while engaging in the global higher education debate.</p> <p>Open to Austin W. Marxe School of Public and International Affairs students; others with Marxe School permission.</p>
Pre-Requisites	PAF 9330
Credits	3
Contact Hours	3
Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc)	None
Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures <input type="checkbox"/> Mathematics <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> College Option Detail _____

	<input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Fall 2020

Rationale: Internationalization of higher education is of widespread interest to students, faculty, and staff of most colleges and universities. For HEA students interested in the broad area of student services, knowledge of policies, programs, and practices related to international higher education can greatly enhance opportunities for their future career prospects. Therefore, the proposed course will be a valuable addition to the HEA Programs set of elective courses.

This course is an elective for the MSED HEA program, to be offered annually with a projected enrollment of 25 students.

AIV: 1.2 The following new course is proposed for the MSED in Higher Education Administration program in the Marxe School of Public and International Affairs.

CUNYfirst Course ID	PAF 9344
Department(s)	Marxe School of Public and International Affairs
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	Public Affairs
Course Prefix	PAF
Course Number	9344
Course Title	Diversity in Higher Education
Catalogue Description	The questions of how higher educational leaders define diversity; of why diversity matters to these leaders; and how leaders might engage students' diverse identities in their work, are the essential questions that guide the study of diversity in higher education, and that will serve as the essential questions for this course. The course looks at diversity from historical, theoretical and organizational perspectives in order to develop the understanding of the meaning of diversity and how that meaning has changed.

	Open to Austin W. Marxe School of Public and International Affairs students; others with Marxe School permission.
Pre/Co Requisites	None
Credits	3
Contact Hours	3
Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc)	None
Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures <input type="checkbox"/> Mathematics <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> College Option Detail _____ <input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Fall 2020

Rationale: The concept of diversity addresses one of the most salient topics that higher education administrators will face in their careers – and often one of the most controversial and seemingly intractable topics. As a result, it is essential that students completing a graduate program in Higher Education Administration have the opportunity to develop a clear and comprehensive understanding of how diversity is defined and how it influences educational practice. The HEA program addresses diversity throughout many of its offerings, but this particular course offers students the opportunity to explore in great depth both the theoretical and practical manifestations of the concept.

This course is an elective for the MSED HEA program, to be offered annually with a projected enrollment of 25 students.

AIV: 1.3 The following new course is proposed for the MSED in Higher Education Administration program in the Marxe School of Public and International Affairs.

CUNYfirst Course ID	PAF 9345
Department(s)	Marxe School of Public and International Affairs
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	Public Affairs
Course Prefix	PAF
Course Number	9345
Course Title	The Law of Higher Education
Catalogue Description	<p>This course will explore key laws and legal concepts applicable to American institutions of higher education. We will discuss the increasingly complex and evolving legal environment in which our colleges and universities operate. The course will focus on how the law balances the rights and responsibilities of colleges and universities and their many varied constituencies, including faculty, staff, students, and the public at large.</p> <p>Open to Austin W. Marxe School of Public and International Affairs students; others with Marxe School permission.</p>
Pre/Co Requisites	None
Credits	3
Contact Hours	3
Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc)	None
Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures

	<input type="checkbox"/> Mathematics <input type="checkbox"/> Science	<input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World	College
Option Detail			
Effective Term	Fall 2020		

Rationale: The Program in Higher Education Administration focuses on four distinct substantive areas within higher education: The history and structure of higher education; leadership in higher education; advancing the academic mission and student success; and planning, assessment, and institutional research.

Essential skills needed for effective leadership include familiarity with administration and management practices; mastery of finance and budgeting; the role of politics and public policy; the importance of diversity in higher education; and legal issues in higher education. Therefore, a course in “The Law of Higher Education” is an important component of one of the four substantive areas on which the Program focuses.

The content of this class contributes markedly to one of five key competencies that the Program has identified, and to the specific learning goals associated with that competency. The relevant competency is “Demonstrate preparedness to lead and manage within the field of higher education,” and the associated learning goal is “Articulate knowledge of higher education administration issues and demonstrate the ability to use appropriate information, communication, and pertinent values to make recommendations toward a solution.”

Effective knowledge of laws relevant to higher education will be among the essential knowledge and skill sets needed for effective leadership.

This course is an elective for the MSED HEA program, to be offered annually with a projected enrollment of 20 students.

AIV: 1.4 The following new course is proposed for the MSED in Higher Education Administration program in the Marx School of Public and International Affairs.

CUNYfirst Course ID	PAF 9346
Department(s)	Marxe School of Public and International Affairs
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	Public Affairs
Course Prefix	PAF
Course Number	9346
Course Title	Student Development Theory and Practice
Catalogue Description	<p>This course will provide students with a working knowledge and history of student development theory and practice that will serve as a foundation for the course. Topics to be covered include understanding and using student development theory, including social identity theories, foundational theories, integrative theories, and ecological system theories. Future trends in student development theory will also be covered.</p> <p>Open to Austin W. Marxe School of Public and International Affairs students; others with Marxe School permission.</p>
Pre/Co Requisites	None
Credits	3
Contact Hours	3
Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc)	None
Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures <input type="checkbox"/> Mathematics <input type="checkbox"/> US Experience in its Diversity Option Detail _____ College

	<input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Fall 2020

Rationale: Many HEA students come to the Program with work experience in the broad arena of Student Affairs; and many of those seek career advancement in this arena as well. The Programs required course in “Student Affairs” [PAF 9336] focuses on the design and implementation of a wide array of programs and services provided for students by student affairs professionals. That course is very highly practice-based. The proposed Student Development course is more academically and theoretically focused, with the primary goal of providing aspiring Student Affairs professionals with a solid background in the history of student development and the various theoretical traditions that underlie work in student development, and student affairs.

This course is an elective for the MSED HEA program, to be offered annually with a projected enrollment of 25 students.

Section AV: Changes in Existing Courses

Program Code: 01966

HEGIS Code: 2102.00

AV: 1.1 Change in Description in the MPA program in the Marxe School of Public and International Affairs.

CUNYFirst Course ID	PAF 9180		
FROM		TO	
Departments			
Course	Policy Analysis	Course	Policy Analysis
Pre or co requisite	None	Prerequisite	None
Hours	3	Hours	3
Credits	3	Credits	3

Description	<p>This course provides an overview of the use of analytic techniques in solving public sector problems and designing government programs. The topics include agenda setting, approaches to problem solving, the role of values in policy making and policy analysis, policy relevant data collection and analysis, principles of benefit cost analysis, techniques of policy analysis (e.g., queuing, simulations, formal modeling), strategies for policy adoption and implementation, and the politics of policy analysis.</p> <p>Open to Austin W. Marxe School of Public and International Affairs students; others with Marxe School permission.</p>	Description	<p><u>This course introduces students to the analysis of public policy and policymaking, focusing on approaches for identifying problems and goals, developing alternatives, analyzing potential impacts, and formulating recommendations for advocacy and policy action in the public sector. Policy analysts do their work within a broader political context which shapes policy proposals and their underlying justifications, and so this course examines agenda setting, the role of values, interests, and goals, and general strategies for policy analysis, advocacy, adoption, and implementation. Students are introduced to various analytic approaches and arguments, and through readings and assignments, are provided opportunities to investigate specific areas of social concern and to analyze potential policy responses.</u></p> <p>Open to Austin W. Marxe School of Public and International Affairs students; others with Marxe School permission.</p>
Requirement Designation		Requirement Designation	
Liberal Arts	[] Yes [X] No	Liberal Arts	[] Yes [X] No
Course Attribute (e.g. Writing Intensive, Honors, etc)		Course Attribute (e.g. Writing Intensive, Honors, etc)	

Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Gen Ed Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World <input type="checkbox"/> Gen Ed – College Option College Option Detail <hr/>	Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Gen Ed Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Fall 2020		

Rationale: The new description better reflects the approach of the course as it is currently taught.

AV: 1.2 Changes in the Pre-Enrollment Requirements and Description in the MPA program in the Marxe School of Public and International Affairs.

CUNYFirst Course ID	PAF 9174
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FROM		TO	
Departments			
Course	Program Evaluation	Course	Program Evaluation
Prerequisite	PAF 9170 and PAF 9172	Prerequisite	PAF 9170 and PAF 9172
Hours	3	Hours	3
Credits	3	Credits	3
Description	<p>Examination of the process and techniques of program evaluation and the assessment of effectiveness of public sector policies. Various performance assessment criteria, problems of evaluation research, and the politics of program evaluation are reviewed.</p> <p>Open only to MPA/MSEd students. All other students must obtain permission from spa.advisement@baruch.cuny.edu.</p>	Description	<p>This course examines the process and techniques of program evaluation and the assessment of effectiveness of public sector policies. Various performance assessment criteria, problems of evaluation research, and the politics of program evaluation are reviewed.</p> <p><u>Open to Austin W. Marxe School of Public and International Affairs students; others with Marxe School permission.</u></p>
Requirement Designation		Requirement Designation	
Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc)		Course Attribute (e.g. Writing Intensive, Honors, etc)	
Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics	Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics

	<p style="text-align: center;">___ Science</p> <p>___ Gen Ed Flexible</p> <p style="text-align: center;">___ World Cultures</p> <p style="text-align: center;">___ US Experience in its Diversity</p> <p style="text-align: center;">___ Creative Expression</p> <p style="text-align: center;">___ Individual and Society</p> <p style="text-align: center;">___ Scientific World</p> <p style="text-align: center;">___ Gen Ed – College Option</p> <p style="text-align: center;">College Option Detail</p> <hr/>		<p style="text-align: center;">___ Science</p> <p>___ Gen Ed Flexible</p> <p style="text-align: center;">___ World Cultures</p> <p style="text-align: center;">___ US Experience in its Diversity</p> <p style="text-align: center;">___ Creative Expression</p> <p style="text-align: center;">___ Individual and Society</p> <p style="text-align: center;">___ Scientific World</p>
Effective Term	Fall 2020		

Rationale: PAF 9174 is an approved course in the MIA program curriculum, but the original pre-enrollment requirement of the course was never changed to include MIA students once the program was launched. The new language opens the course up not only to MPA and MSED students, but also to MIA students.

AV: 1.3 Changes in the Pre-Enrollment Requirements and Description in the MPA program in the Marxe School of Public and International Affairs.

CUNYFirst Course ID	PAF 9199		
FROM		TO	
Departments			
Course	Selected Topics in Public Affairs	Course	Selected Topics in Public Affairs
Prerequisite	None.	Prerequisite	None.

Hours	3	Hours	3
Credits	3	Credits	3
Description	<p>Topic will vary from offering to offering.</p> <p>Open only to MPA/MSEd students. All other students must obtain permission from spa.advisement@baruch.cuny.edu.</p>	Description	<p>Topic will vary from offering to offering.</p> <p><u>Open to Austin W. Marxe School of Public and International Affairs students; others with Marxe School permission.</u></p>
Requirement Designation		Requirement Designation	
Liberal Arts	[] Yes [X] No	Liberal Arts	[] Yes [X] No
Course Attribute (e.g. Writing Intensive, Honors, etc)		Course Attribute (e.g. Writing Intensive, Honors, etc)	
Course Applicability	<p><input checked="" type="checkbox"/> Major</p> <p><input type="checkbox"/> Gen Ed Required</p> <p> <input type="checkbox"/> English Composition</p> <p> <input type="checkbox"/> Mathematics</p> <p> <input type="checkbox"/> Science</p> <p><input type="checkbox"/> Gen Ed Flexible</p> <p> <input type="checkbox"/> World Cultures</p> <p> <input type="checkbox"/> US Experience in its Diversity</p> <p> <input type="checkbox"/> Creative Expression</p> <p> <input type="checkbox"/> Individual and Society</p> <p> <input type="checkbox"/> Scientific World</p> <p><input type="checkbox"/> Gen Ed – College Option</p>	Course Applicability	<p><input checked="" type="checkbox"/> Major</p> <p><input type="checkbox"/> Gen Ed Required</p> <p> <input type="checkbox"/> English Composition</p> <p> <input type="checkbox"/> Mathematics</p> <p> <input type="checkbox"/> Science</p> <p><input type="checkbox"/> Gen Ed Flexible</p> <p> <input type="checkbox"/> World Cultures</p> <p> <input type="checkbox"/> US Experience in its Diversity</p> <p> <input type="checkbox"/> Creative Expression</p> <p> <input type="checkbox"/> Individual and Society</p> <p> <input type="checkbox"/> Scientific World</p>

	College Option Detail		
Effective Term	Fall 2020		

Rationale: PAF 9199 is an approved course in the MIA program curriculum, but the original pre-enrollment requirement of the course was never changed to include MIA students once the program was launched. The new language opens the course up not only to MPA and MEd students, but also to MIA students.

AV: 1.4 Changes in the Pre-Enrollment Requirements and Description in the MPA program in the Marxe School of Public and International Affairs.

CUNYFirst Course ID	PAF 9299		
FROM		TO	
Departments			
Course	Selected Topics in Nonprofit Management	Course	Selected Topics in Nonprofit Management
Prerequisite	None.	Prerequisite	None.
Hours	3	Hours	3
Credits	3	Credits	3
Description	The course focuses on major areas in nonprofit management. Course may be taken more than once if the topics are different and with permission of advisor.	Description	The course focuses on major areas in nonprofit management. Course may be taken more than once if the topics are different and with permission of advisor.

	Open only to MPA/MSEd students. All other students must obtain permission from spa.advisement@baruch.cuny.edu .		<u>Open to Austin W. Marxe School of Public and International Affairs; others with Marxe School permission.</u>
Requirement Designation		Requirement Designation	
Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc)		Course Attribute (e.g. Writing Intensive, Honors, etc)	
Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Gen Ed Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World <input type="checkbox"/> Gen Ed – College Option College Option Detail <hr/>	Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Gen Ed Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World

Effective Term	Fall 2020		

Rationale: PAF 9299 is an approved course in the MIA program curriculum, but the original pre-enrollment requirement of the course was never changed to include MIA students once the program was launched. The new language opens the course up not only to MPA and MEd students, but also to MIA students.

AV: 1.5 Changes in the Pre-Enrollment Requirements and Description in the MPA program in the Marxe School of Public and International Affairs.

CUNYFirst Course ID	PAF 9699		
FROM		TO	
Departments			
Course	Selected Topics in Public Policy	Course	Selected Topics in Public Policy
Prerequisite	None.	Prerequisite	None.
Hours	3	Hours	3
Credits	3	Credits	3
Description	<p>Focuses on major substantive areas of public policy. Course may be taken more than once if the topics are different and with permission of advisor.</p> <p>Open only to MPA/MSEd students. All other students must obtain permission from spa.advisement@baruch.cuny.edu.</p>	Description	<p><u>The course</u> focuses on major substantive areas of public policy. Course may be taken more than once if the topics are different and with permission of advisor.</p> <p><u>Open to Austin W. Marxe School of Public and International Affairs students; others with Marxe School permission.</u></p>
Requirement Designation		Requirement Designation	
Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Liberal Arts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Course Attribute (e.g. Writing Intensive, Honors, etc)		Course Attribute (e.g. Writing Intensive, Honors, etc)	
Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Gen Ed Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World <input type="checkbox"/> Gen Ed – College Option College Option Detail <hr/>	Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> English Composition <input type="checkbox"/> Mathematics <input type="checkbox"/> Science <input type="checkbox"/> Gen Ed Flexible <input type="checkbox"/> World Cultures <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Fall 2020		

Rationale: PAF 9699 is an approved course in the MIA program curriculum, but the original pre-enrollment requirement of the course was never changed to include MIA students once the program was launched. The new language opens the course up not only to MPA and MEd students, but also to MIA students.

PART A: ACADEMIC MATTERS

Zicklin School of Business Undergraduate

Section AVII: International Program Agreements

AVII:1. International Student Exchange Agreement with The Free University of Bozen-Bolzano

International Student Exchange Authorization

RESOLVED: Baruch College of The City University of New York requests that the Chancellor of the City University of New York authorize its President to execute an international student exchange agreement on behalf of Baruch College with the Free University of Bozen-Bolzano in Bozen- Bolzano, Italy. Neither party to this agreement is obligated to pay any monetary consideration to the other. Each agreement is for an initial three-year period beginning August 1, 2019 and shall include up to two two-year options for the College to renew in its best interest. The agreement shall be subject to approval as to form by the University Office of General Counsel.

EXPLANATION: This agreement will enable students enrolled in Baruch College's University of Bozen-Bolzano exchange program to study at the Free University of Bozen-Bolzano and students at the University of Bozen-Bolzano (UNIBZ) to study at Baruch College of the City University of New York. The equivalent of one (1) exchange student per institution per academic year is expected to participate. This program is designed to promote bilateral exchange of students as a complement to the existing cooperation between the two institutions on the MS double-degree program. It is hoped that UNIBZ undergraduates who attend Baruch for a semester may later apply for the double degree program, and that Baruch students will undertake a semester-long study abroad in an area at the crossroads of German-speaking and Italian culture.

ACADEMIC UNIVERSITY REPORT DETAIL ERRATA, effective Fall 2019

October 2018 Chancellor's University Report	SECTION AIV. New Course Item AIV.1: The rationale should have included that continuing students would be allowed to use CIS 2300 as a major elective.
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Baruch College
October 2019 Committee on Academic Policy, Programs, and Research Report Detail

PART A: ACADEMIC MATTERS

The following recommendations of the Committee on Undergraduate Curriculum were approved at the Mildred and George Weissman School of Arts and Sciences Faculty Meetings on April 30, 2019 effective the Fall 2020 semester, pending approval of the Board of Trustees.

Section AIII: Changes in Degree Programs

AIII.1.1 The following revisions are proposed for the BA in Statistics

Program: BA in Statistics

Program Codes: 01962 and 60028 (Macaulay Honors)

HEGIS Code: 1702.00

Effective: Fall 2020

FROM	TO
<p>Arts and sciences students can major in one of the following three programs in the Department of Statistics and Computer Information Systems:</p> <p>Statistical Theory Psychometrics Sociometrics</p> <p>The department offers courses for students who are primarily interested in mathematics, psychology, and sociology. Statistical theory, using the college's extensive computer installations, provides professional training for those who desire a career in operations research, quality control and reliability, health sciences and governmental statistics, design and analysis of surveys, and computer information systems. Joint major programs in conjunction with Departments of Psychology and Sociology and Anthropology</p>	<p><u>Statistical methods are crucial in numerous fields such as biology, physics, climate science, and finance, to name a few. The Bachelor of Arts in Statistics major is intended to provide students with fundamental knowledge and skills in probability, mathematical statistics, data analysis, and statistical computing. Students will explore the mathematical foundations of the theory of statistics. The demand for these skills has increased with the rise of big data. This major is intended to prepare students for graduate study in statistics or related subjects or for a career in data analysis or other related fields.</u></p> <p><u>As with all BA majors, the liberal arts minor (courses 2-4 of the College Option) and second major (if applicable) must be completed outside the department of the student's major. A student majoring in statistics cannot minor in mathematics or</u></p>

are offered and include courses to augment study in psychometrics and sociometrics.			<u>declare a second major in actuarial science, financial mathematics, or mathematics.</u>		
Course	Description	Crs	Course	Description	Crs
Statistical Theory			<u>Program Prerequisites</u>		
Base Courses			As a preliminary requirement, students must complete the following courses:		
CIS 2200	Introduction to Information Systems and Technologies	3 credits	<u>STA 2000</u>	<u>Business Statistics I</u>	<u>3 credits</u>
STA 2100	Statistical Methods for Social Science	3 credits	<u>MTH 3020</u>	<u>Calculus III</u>	<u>4 credits</u>
MTH 2630	Analytic Geometry and Calculus I	5 credits		or	
MTH 3030	Analytic Geometry and Calculus II	5 credits	MTH 3030	<u>Elements of Calculus III</u>	5 credits
				or	
			<u>MTH 3050</u>	<u>Calculus III and Vector Calculus</u>	<u>4 credits</u>
Major The major consists of 24 credits, with up to 9 credits in mathematics.					
Required Courses			Required Courses:		
STA 3351	Theory of Statistics I— Introduction to Probability and Distribution Theory	3 credits	<u>MTH 4100</u>	<u>Linear Algebra and Matrix Methods</u>	<u>3 credits</u>
STA 4452	Theory of Statistics II— Statistical Inference	3 credits	<u>MTH 4120</u>	<u>Introduction to Probability**</u>	<u>4 credits</u>
Elective Courses			<u>MTH 4430</u>	<u>Mathematics of Inferential Statistics</u>	<u>4 credits</u>
CIS 3100	Object-Oriented Programming	3 credits	<u>STA 3000</u>	<u>Statistical Computing</u>	<u>3 credits</u>
OPR 4652	Introduction to Mathematical Programming	3 credits	<u>STA 3920</u>	<u>Data Mining for Business Analytics</u>	<u>3 credits</u>

OPR 4653	Introduction to Statistical Decision Theory and Game Theory	3 credits	<u>STA 4155 *</u>	<u>Regression and Forecasting Models for Business Applications</u>	<u>3 credits</u>
OPR 4654	Queuing Theory and Inventory Models	3 credits	or		
STA 3156	Sampling Theory and Practice	3 credits	<u>MTH 4130 *</u>	<u>Mathematics of Data Analysis</u>	<u>4 credits</u>
STA 3255	Statistical Quality Control Methods	3 credits			
STA 3560	Nonparametric Statistics	3 credits	NOTES: * <u>Students can receive credit for only one of these two courses.</u> ** <u>Students who have completed MTH 3120 cannot enroll in MTH 4120. They must satisfy the probability requirement by completing MTH 4119 (please consult the Department of Mathematics).</u>		
STA 4158	Analysis of Time Series	3 credits			
STA 4256	Advanced Sampling Methods	3 credits	Students must take one of the following courses: ***		
STA 5559	Introduction to Multivariate Analysis	3 credits	<u>STA 4920</u>	<u>Advanced Data Mining</u>	<u>3 credits</u>
MTH 4010	Mathematical Analysis I	3 credits	<u>STA 4158</u>	<u>Analysis of Time Series</u>	<u>3 credits</u>
MTH 4020	Advanced Calculus II	3 credits	<u>STA 4000</u>	<u>Introduction to SAS Programming</u>	<u>3 credits</u>
MTH 4100	Linear Algebra and Matrix Methods	3 credits	<u>OPR 3450</u>	<u>Quantitative Decision Making for Business I</u>	<u>3 credits</u>
MTH 4120	Introduction to Probability	3 credits			
MTH 4130	Mathematics of Statistics	3 credits	*** <u>These courses may also be used as electives for the major</u>		
MTH 5010	Advanced Calculus III *	3 credits			
* These courses are offered infrequently, subject to student demand.			Electives Students must complete one additional course from the following list:		
			<u>MTH 4000</u>	<u>Bridge to Higher Mathematics</u>	<u>3 credits</u>

Psychometrics			<u>MTH 4010</u>	<u>Mathematical Analysis I</u>	<u>3 credit</u>
Base Courses:			<u>MTH 4020</u>	<u>Advanced Calculus II</u>	<u>3 credits</u>
CIS 2200	Introduction to Information Systems and Technologies	3 credits	<u>MTH 4030</u>	<u>Topology</u>	<u>3 credits</u>
STA 2000	Business Statistics I	3 credits	<u>MTH 4110</u>	<u>Ordinary Differential Equations</u>	<u>3 credits</u>
MTH 2630	Analytic Geometry and Calculus I	5 credits	<u>MTH 4115</u>	<u>Numerical Methods for Differential Equations in Finance</u>	<u>4 credits</u>
			<u>MTH 4125</u>	<u>Introduction to Stochastic Process</u>	<u>4 credits</u>
The Major The major consists of 24 credits.			<u>MTH 4135</u>	<u>Computational Methods in Probability</u>	<u>3 credits</u>
Required Courses:			<u>MTH 4140</u>	<u>Graph Theory</u>	<u>3 credits</u>
STA 2555	Applied Methods I—Probability and Statistics	3 credits	<u>MTH 4145</u>	<u>Mathematical Modeling *</u>	<u>3 credits</u>
STA 3556	Applied Methods II—Statistical Inference	3 credits	<u>MTH 4150</u>	<u>Combinatorics</u>	<u>3 credits</u>
STA 4561	Factor Analysis and Classification Techniques	3 credits	<u>MTH 4200</u>	<u>Theory of Numbers</u>	<u>3 credits</u>
PSY 3053	Tests and Measurements	3 credits	<u>MTH 4210</u>	<u>Elements of Modern Algebra</u>	<u>3 credits</u>
			<u>MTH 4220</u>	<u>Introduction to Modern Geometry</u>	<u>3 credits</u>
Elective Courses:			<u>MTH 4230</u>	<u>History of Mathematics</u>	<u>3 credits</u>
OPR 4653	Introduction to Statistical Decision Theory and Game Theory	3 credits	<u>MTH 4240</u>	<u>Differential Geometry *</u>	<u>3 credits</u>
STA 3156	Sampling Theory and Practice	3 credits	<u>MTH 4300</u>	<u>Algorithms, Computers and Programming II</u>	<u>3 credits</u>
STA 3560	Nonparametric Statistics	3 credits	<u>MTH 4310</u>	<u>Methods of Numerical Analysis</u>	<u>3 credits</u>
STA 5559	Introduction to Multivariate Analysis	3 credits	<u>MTH 4315</u>	<u>Introduction to Mathematical Logic</u>	<u>3 credits</u>
MTH 3030	Analytic Geometry and Calculus II	5 credits	<u>MTH 4320</u>	<u>Fundamental Algorithms</u>	<u>3 credits</u>
MTH 4100	Linear Algebra and Matrix Methods	3 credits	<u>MTH 4410</u>	<u>Theory of Interest</u>	<u>3 credits</u>
PSY 3056	Social Psychology	3 credits	<u>MTH 4420</u>	<u>Actuarial Mathematics I</u>	<u>4 credits</u>
PSY 3180	Vocational Psychology	3 credits	<u>MTH 4421</u>	<u>Actuarial Mathematics II</u>	<u>4 credits</u>

PSY 3181	Business and Industrial Psychology	3 credits	<u>MTH 4451</u>	<u>Short-Term Insurance Mathematics</u>	<u>4 credits</u>
PSY 3182	Interviewing Techniques	3 credits	<u>MTH 4500</u>	<u>Introductory Financial Mathematics</u>	<u>4 credits</u>
PSY 3183	Psychology and Urban Problems	3 credits	<u>MTH 4600</u>	<u>Data Analysis and Simulation for Financial Engineers</u>	<u>4 credits</u>
PSY 4092	Special Problems in Psychology	2 credits	<u>MTH 5010</u>	<u>Advanced Calculus III *</u>	<u>3 credits</u>
PSY 4282	Advanced Psychological Testing	3 credits	<u>MTH 5020</u>	<u>Theory of Functions of a Complex Variable</u>	<u>3 credits</u>
			<u>MTH 5030</u>	<u>Theory of Functions of Real Variables *</u>	<u>3 credits</u>
Sociometrics			<u>MTH 5100</u>	<u>Partial Differential Equations and Boundary Value Problems *</u>	<u>4 credits</u>
Base Courses:			<u>MTH 5500</u>	<u>Stochastic Calculus for Finance</u>	<u>4 credits</u>
CIS 2200	Introduction to Information Systems and Technologies	3 credits	<u>CIS 2300</u>	<u>Programming and Computational Thinking</u>	<u>3 credits</u>
STA 2000	Business Statistics I	3 credits	<u>CIS 3100</u>	<u>Object-Oriented Programming</u>	<u>3 credits</u>
MTH 2630	Analytic Geometry and Calculus I	5 credits	<u>CIS 3120</u>	<u>Programming for Analytics</u>	<u>3 credits</u>
			<u>CIS 3400</u>	<u>Database Management Systems I</u>	<u>3 credits</u>
Major			<u>CIS 4100</u>	<u>Object-Oriented Programming II</u>	<u>3 credits</u>
The major consists of 24 credits					
Required Courses			<u>CIS 4400</u>	<u>Data Warehousing for Analytics</u>	<u>3 credits</u>
			<u>OPR 3450</u>	<u>Quantitative Decision Making for Business I</u>	<u>3 credits</u>
STA 2555	Applied Methods I – Probability and Statistics	3 credits	<u>OPR 3451</u>	<u>Quantitative Decision Making for Business II</u>	<u>3 credits</u>
STA 3556	Applied Methods II- Statistical Inference	3 credits	<u>OPR 3453</u>	<u>Bayesian Statistical Inference and Decision Making</u>	<u>3 credits</u>
STA 3563	Design of Social Research	3 credits	<u>OPR 4470</u>	<u>Special Topics in Operations Research</u>	<u>3 credits</u>
SOC 4032	Methods of Sociological Research	3 credits	<u>OPR 5000</u>	<u>Independent Study and Research in Operations Research</u>	<u>3 credits</u>

			<u>STA 4000</u>	<u>Introduction to SAS Programming</u>	<u>3 credits</u>
Elective Courses			<u>STA 4157</u>	<u>Design and Analysis of Experimental Data</u>	<u>3 credits</u>
			<u>STA 4158</u>	<u>Analysis of Time Series</u>	<u>3 credits</u>
OPR 4653	Introduction to Statistical Decision Theory and Game Theory	3-credits	<u>STA 4170</u>	<u>Data Visualization</u>	<u>3 credits</u>
STA 3156	Sampling Theory and Practice	3-credits	<u>STA 4370</u>	<u>Special Topics in Applied Statistics</u>	<u>3 credits</u>
STA 3560	Nonparametric Statistics	3-credits	<u>STA 4920</u>	<u>Advanced Data Mining</u>	<u>3 credits</u>
STA 5559	Introduction to Multivariate Analysis	3-credits	<u>STA 5000</u>	<u>Independent Study in Statistics</u>	<u>3 credits</u>
MTH 3030	Analytic Geometry and Calculus II	5-credits			
MTH 4100	Linear Algebra and Matrix Methods	3-credits	* These courses are offered infrequently, subject to student demand.		
SOC 3155	Urban Sociology	3-credits			
SOC 3052	Social Stratification	3-credits			
SOC 3055	Population and Society	3-credits			
SOC 3064	Modern Organizations	3-credits			
SOC 3082	Small Groups	3-credits			
Subtotal: 35-40 credits (Base Courses, Required Courses, and Major Electives)			Subtotal: <u>33-36</u> credits (Program Prerequisites, Required Courses, and Major Electives)		
Total credits required for the BA degree: 120			Total credits required for the BA degree: 120		

Rationale: These changes are being made to update the BA in Statistics because of changes in the curriculum. The Psychometrics track and Sociometrics track are being eliminated because several of the required classes for those tracks are no longer offered. These changes also reflect a collaboration for this major between the Paul H. Chook Department of Information Systems and Statistics and the Department of Mathematics.