

January 2018

Baruch College

Chancellor's University Report – Part A: Academic Matters

PART A: ACADEMIC MATTERS

Section AI: Special Actions

AI.1.1 DISCONTINUATION OF THE PROGRAM LEADING TO ADVANCED CERTIFICATES IN SCHOOL ADMINISTRATION AND SUPERVISION.

NYSED CUNY Baruch College Code: 330500

NYSED Program Code: 76701 School Administrator and Supervisor

HEGIS 0828.00 AWARD: ADV CRT

Individual Programs to be discontinued:

Program Code 29137 MS IN EDUCATIONAL LEADERSHIP

Program Code 29138 SBL Certificate in School Building Leadership

Program Code 29137 SDL Certificate in School District Leadership

RESOLVED, that the Master's degree and Advanced Certificate Programs in School Leadership offered by the Marxe School of Public and International Affairs be discontinued at the close of the Spring, 2018 Academic Term.

EXPLANATION: Pursuant to academic and institutional planning, and in consultation with the New York State Department of Education, the President and Provost of Baruch College have concluded that the degree and certificate programs in School Administration and Supervision must be closed at the earliest feasible date. NYSED directed Baruch to discontinue admitting students at the earliest possible date, to 'teach out' students who were currently enrolled in the programs, and to seek formal removal of the program for the Inventory of Registered Programs.

The principal issue is the infeasibility of receiving national accreditation by CAEP, the Council for the Accreditation of Educator Preparation. Because this Certificate and Degree program in Educational Leadership is ineligible for accreditation as a stand-alone program, the New York State Department of Education determined that Baruch must discontinue this program. Upon receiving this decision from NYSED, Baruch President Mitchel B. Wallerstein took immediate action to close the program and to request its removal from the Inventory of Registered Programs in the State of New York. The final students enrolled in the program will complete their certificates at the end of the Spring, 2018 semester.

Baruch College formed the School of Public Affairs in 1994 and closed its School of Education in 1995. The School of Public Affairs Programs had been part of what is now the Zicklin School of Business; it was recently renamed the Marxe School of Public and International Affairs, reflecting its expanded mission and identity. The Marxe School offered several well-recognized leadership and public administration oriented programs in education that are distinct from the teacher preparation focus of Schools of Education. In addition to the Advanced Certifications in School Building and District Leadership which we seek to discontinue, the Marxe School offers an MS in Higher Education, preparing professionals to work in student affairs and services, including admissions, financial aid,

registrar, student activities, athletics, judicial affairs, and similar programs that prepare professionals to support students in colleges and universities. Historically, none of these programs were required to hold national accreditation because they were not focused on classroom teaching, testing, or counseling activities.

In November, 2016 the Office of Academic Affairs at CUNY was notified by the New York State Department of Education that Baruch's certificate and Master's degree programs in School Building and District Leadership must be accredited by CAEP. The Marxe School Dean contacted CAEP to explore options. In the end, CAEP indicated that these kinds of advanced leadership programs were ineligible for accreditation unless they were part of the core accreditation of a traditional program in teacher and counselor preparation. There is no mechanism to seek accreditation of graduate degrees and certificates in school leadership in the absence of a comprehensive program in teacher education.

On April 17, 2017 Baruch College President Mitchell B. Wallerstein submitted a "Plan for the Discontinuance of an Educational Leadership Program(s)" to the New York State Department of Education, Office of Higher Education, Office of College and University Evaluation. The program employed only one full-time faculty member who is not tenured. She participated in Baruch's attempts to explore the feasibility of earning CAEP accreditation, and was aware of the ultimate decision by NYSED that directed Baruch to close the program. In a letter dated May 16, 2017 from the State Education Department, Patricia Oleaga confirmed that the Advanced Certificate in School Administration and Supervision programs listed above would be removed from the Inventory of Registered Programs effective May, 2017. Baruch College confirmed that all currently enrolled students would be enabled to complete their current degree or certificate objective by Spring, 2018.

Baruch College will discontinue the adjunct appointments of six individuals, and will not renew the appointment of the one full time, untenured member of the faculty, as a direct outcome of the program closure and subject to final approval of the CUNY Board of Trustees. Because there are no tenured members of the faculty who teach in this program, there is no need to submit a transfer and reappointment plan because no tenured members of the faculty are impacted by this program closure.

PART A: ACADEMIC MATTERS

Section AllI: Changes in Degree Programs

AllI: 1.1 The following revisions are proposed for the BBA in Data Analytics in the Zicklin School of Business

Program: BBA in Computer Information Systems (Data Analytics Track)

Program Code: 21849

MHC Program Code: 60006

HEGIS Code: 0702.00

Effective: Fall 2018

From:	BBA in Data Analytics		To:	BBA in Data Analytics	
Course	Description	CR	Course	Description	CR
Required Courses (12 credits)			Required Courses (12 credits)		
CIS 3100 OR	Object-Oriented Programming †	3	<<<<<	<<<<<	<<
CIS 3120	Programming for Analytics	3	CIS 3120	Programming for Analytics	3

CIS 3400	Database Management Systems I	3	CIS 3400	Database Management Systems I	3
CIS 3920 / STA 3920	Data Mining for Business Analytics	3	CIS 3920 / STA 3920	Data Mining for Business Analytics	3
CIS 4400	Data Warehousing for Analytics	3	CIS 4400	Data Warehousing for Analytics	3
Elective Courses (12 credits)		CR	Elective Courses (12 credits)		CR
CIS 3100* OR	Object-Oriented Programming I	3	CIS 3100	Object-Oriented Programming I	3
CIS 3120*	Programming for Analytics	3	<<<<<	<<<<<	<<
CIS 3150	Introduction to Semantic Technologies	3	CIS 3150	Introduction to Semantic Technologies	3
CIS 3710	Foundations of Business Analytics	3	CIS 3710	Foundations of Business Analytics	3
CIS 4170	Data Visualization	3	CIS 4170	Data Visualization	3
STA 3154	Business Statistics II	3	STA 3154	Business Statistics II	3
STA 3155	Regression and Forecasting Models for Business Applications	3	STA 3155	Regression and Forecasting Models for Business Applications	3
OPR 3450	Quantitative Decision Making for Business I	3	OPR 3450	Quantitative Decision Making for Business I	3
OPR 3451	Quantitative Decision Making for Business II	3	OPR 3451	Quantitative Decision Making for Business II	3
MKT 4123	Marketing Web Analytics and Intelligence	3	MKT 4123	Marketing Web Analytics and Intelligence	3
MKT 4561	Marketing Analytics	3	MKT 4561	Marketing Analytics	3
* If you have used one of these programming courses as a required course, you may use the other as an elective.					

Rationale: CIS 3100 covers a general object oriented programming language such as C++ which is not used widely for data analytics. By removing CIS 3100 from the "Required Courses" list, we can make sure that the students will complete a course on programming for analytics (CIS 3120) when they complete the Data Analytics Track in the BBA in Computer Information Systems. Note: Students who have declared their major and track choice before Fall 2018 will be allowed to complete their programs under the old structure that is being changed.

All: 1.2 The following revisions are proposed for the BBA in Information Risk Management and Cybersecurity in the Zicklin School of Business

Program: BBA in Computer Information Systems (Information Risk Management and Cybersecurity Track)

Program Code: 21849

MHC Program Code: 60006

HEGIS Code: 0702.00

Effective: Fall 2018

From:			To:		
BBA in Information Risk Management and Cybersecurity			BBA in Cybersecurity and Information Assurance		
Course	Description	CR	Course	Description	CR
Required Courses (15 credits)			Required Courses (15 credits)		
CIS 3100	Object-Oriented Programming I	3	CIS 3100	Object-Oriented Programming I	3
CIS 3400	Database Management Systems I	3	CIS 3400	Database Management Systems I	3
CIS 3500	Networks and Telecommunications I	3	CIS 3500	Networks and Telecommunications I	3
CIS 3550	Cybersecurity	3	CIS 3550	Cybersecurity	3
CIS 4350	Information Technology Audit	3	CIS 4350	Information Technology Audit	3
Elective Courses (9 credits)		CR	Elective Courses (9 credits)		CR
CIS 3700	Green IT	3	CIS 3120	Programming for Analytics	3
CIS 3750	Social Media Technologies in Organizations	3	CIS 3750	Social Media Technologies in Organizations	3
CIS 3770	Usability, Privacy, and Security	3	CIS 3770	Usability, Privacy, and Security	3
CIS 4100	Object-Oriented Programming II	3	CIS 4100	Object-Oriented Programming II	3
CIS 4110	Object-Oriented Programming II with Java	3	CIS 4110	Object-Oriented Programming II with Java	3
CIS 4160	Web Applications Development	3	CIS 4160	Web Applications Development	3
CIS 4500	Networks and Telecommunications II	3	CIS 4500	Networks and Telecommunications II	3
CIS 4620	Financial Information Technologies	3	CIS 4620	Financial Information Technologies	3
CIS 4800	Systems Analysis and Design	3	CIS 4800	Systems Analysis and Design	3

Rationale: CIS 3700 Green IT is deleted as an elective because this course does not add to the students' understanding of cybersecurity matters. Adding CIS 3120 Programming for Analytics as an elective reflects the common use of Python as a scripting language in cybersecurity. Note: Students who have declared their major and track choice before Fall 2018 will be allowed to complete their programs under the old structure that is being changed.

The following recommendations of the Undergraduate Curriculum Committee were approved at the Zicklin School of Business faculty meeting on November 16, 2017, effective Fall 2018 semester pending approval of the Board of Trustees.

AV:1.1 Changes in course prerequisites in the Paul H. Chook Department of Information Systems & Statistics

CUNYFirst	090595
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Course ID			
FROM		TO	
Departments	Paul H. Chook Department of Information Systems & Statistics	Departments	Paul H. Chook Department of Information Systems & Statistics
Course	CIS 3100 Object-Oriented Programming I	Course	CIS 3100 Object-Oriented Programming I
Pre or co requisite	CIS 2200 AND ZICK OR ZKTP Student Group OR NBTBIN-MIN OR NBSTAT-MIN Plan AND BUS 1000 OR 1001	Pre or co requisite	<u>CIS 2200; and NBTBIN-MIN or NBSTAT-MIN Plan; and BUS 1000 or waiver of BUS 1000 or BUS 1011. No ZICK or ZKTP code required</u>
Hours	3	Hours	3
Credits	3	Credits	3
Description	<p>This course emphasizes an object-oriented approach to solving computer programming problems. Using these techniques leads to shorter system development life cycles, increased programmer productivity, code reusability, and reduced system maintenance costs. This course provides a thorough, practical knowledge of object-oriented programming methods. Students learn the principles underlying programming using a language such as C++.</p> <p>This is the first part of a two-semester sequence. No prior knowledge of computer programming is required.</p>	Description	<p>This course emphasizes an object-oriented approach to solving computer programming problems. Using these techniques leads to shorter system development life cycles, increased programmer productivity, code reusability, and reduced system maintenance costs. This course provides a thorough, practical knowledge of object-oriented programming methods. Students learn the principles underlying programming using a language such as C++.</p> <p>This is the first part of a two-semester sequence. No prior knowledge of computer programming is required.</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

	___ Science ___ Gen Ed Flexible ___ World Cultures ___ US Experience in its Diversity ___ Creative Expression ___ Individual and Society ___ Scientific World ___ Gen Ed – College Option College Option Detail		___ Science ___ Gen Ed Flexible ___ World Cultures ___ US Experience in its Diversity ___ Creative Expression ___ Individual and Society ___ Scientific World
Effective Term	Fall 2018		

Rationale: This change will allow students to take CIS 3100 even before entering the Zicklin School of Business. Presently, by the time the students take CIS 3100 they are already in their junior year putting them at a disadvantage when looking for the internships. By removing the implicit ZICK/ZKTP requirement, the students can take CIS 3100 early in their programs and be better prepared for the internships.

AV: 1.2 Changes course title in the William Newman Department of Real Estate

CUNYFirst Course ID	094266		
FROM		TO	
Departments	William Newman Department of Real Estate	Departments	William Newman Department of Real Estate
Course	RES 4400 Valuations and Underwriting of Securitized Real Estate	Course	RES 4400 <u>Advanced Real Estate Capital Markets</u>
Pre or co requisite	RES3400 Real Estate Capital Markets	Pre or co requisite	RES3400 Real Estate Capital Markets
Hours	3	Hours	3
Credits	3	Credits	3
Description	This course addresses issues in the valuation and pricing of real estate securities. Its primary objective is to combine the theory of finance with the practice in real estate capital markets to enable students to make investment	Description	This course addresses issues in the valuation and pricing of real estate securities. Its primary objective is to combine the theory of finance with the practice in real estate capital markets to enable students to make investment decisions in a complex and changing

	decisions in a complex and changing market. Topics cover both residential and commercial securities, and include: mortgage prepayment and credit risk; debt securities; the analysis of real estate investment trust (REIT) vehicles; and the evolving regulatory environment.		market. Topics cover both residential and commercial securities, and include: mortgage prepayment and credit risk; debt securities; the analysis of real estate investment trust (REIT) vehicles; and the evolving regulatory environment.
Requirement Designation	Business	Requirement Designation	Business
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	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 2018		

Rationale: RES 4400 is an advanced level course that teaches the Real Estate capital markets. We would like to modify the title to reflect the more general scope of the course.

AV: 1.3 Changes in course prerequisites and course number in the William Newman Department of Real Estate

CUNYFirst Course ID	094259		
FROM		TO	
Departments	William Newman Department of Real Estate	Departments	William Newman Department of Real Estate
Course	RES 3550 Analytical Skills in Real Estate	Course	<u>RES 4550</u> Analytical Skills in Real Estate
Pre or co requisite	FIN 3000 Principles of Finance	Pre or co requisite	<u>RES 3200</u> <u>Real Estate Finance and Investment</u>
Hours	3	Hours	3
Credits	3	Credits	3
Description	This course exposes students to two major aspects of real estate analysis. The first is an understanding of key concepts and data sources that are needed to conduct commercial real estate analysis, including issues of policy and financial feasibility and the appreciation of the key issues of risk assessment and present value. The second major component of this course is an understanding of the use of major quantitative analysis tools, including the ability to perform basic calculations. The course makes use of standard spreadsheet software to facilitate the understanding and calculation of the value of an investment. The class includes real data examples and computer laboratory assignments. This course offers students a grounding in analytic and quantitative techniques of real estate financial analysis.	Description	This course exposes students to two major aspects of real estate analysis. The first is an understanding of key concepts and data sources that are needed to conduct commercial real estate analysis, including issues of policy and financial feasibility and the appreciation of the key issues of risk assessment and present value. The second major component of this course is an understanding of the use of major quantitative analysis tools, including the ability to perform basic calculations. The course makes use of standard spreadsheet software to facilitate the understanding and calculation of the value of an investment. The class includes real data examples and computer laboratory assignments. This course offers students a grounding in analytic and quantitative techniques of real estate financial analysis.
Requirement Designation	Business	Requirement Designation	Business
Liberal Arts	[] Yes [x] No	Liberal Arts	[] Yes [x] No
Course Attribute (e.g. Writing)		Course Attribute (e.g. Writing)	

Intensive, Honors, etc)		Intensive, Honors, etc)	
Course Applicability	<input 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	Course Applicability	<input 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 2018		

Rationale: The subject material covered in this course was always supposed to be at an advanced level. We are formally recognizing that level by changing the course number from RES 3550 to RES 4550. The prerequisite also is changed from FIN 3000 to RES 3200. Note: The students who have taken the course RES 3550 will not be allowed to request an upgrade to RES 4550 in their program or their transcript.

PART A: ACADEMIC MATTERS

All: Changes in Degree Programs

AIII.1.1 The following revisions are proposed for the MS in Information Systems in the Zicklin School of Business

Program: MS in Information Systems

HEGIS Code: 0701.00

Program Code: 79233

Effective: Fall 2018

From: MS in Information Systems	To: MS in Information Systems
English Proficiency Requirements	English Proficiency Requirements

Students who completed their undergraduate education in a non-English speaking country will be required to take non-credit bearing modules in Grammar Troubleshooting and American English Pronunciation offered by the Division of Continuing and Professional Studies. These modules may be waived based on a waiver exam. The modules are not required for students who completed a four-year degree in an English speaking country.			Students who completed their undergraduate education in a non-English speaking country will be required to take non-credit bearing modules in Grammar Troubleshooting and American English Pronunciation offered by the Division of Continuing and Professional Studies. These modules may be waived based on a waiver exam. The modules are not required for students who completed a four-year degree in an English speaking country.		
Course	Description	Crs	Course	Description	Crs
Courses in Specialization (credits)			Courses in Specialization (credits)		
Required (13.5 credits)			Required (13.5 credits)		
BUS 9551	Business Communication I	1.5	BUS 9551	Business Communication I	1.5
CIS 9000*	Information Technology Strategy	3	CIS 9000*	Information Technology Strategy	3
CIS 9340	Principles of Database Management Systems	3	CIS 9340	Principles of Database Management Systems	3
CIS 9490	Systems Analysis and Design	3	CIS 9490	Systems Analysis and Design	3
CIS 9590	Information Systems Development Project	3	CIS 9590	Information Systems Development Project	3
Electives (18 credits)			Electives (18 credits)		
Choose 12-18 credits from the list below:			Choose 12-18 credits from the list below:		
BUS 9801, 9802, 9803	Graduate Internship I, II, III (in IS)	3	BUS 9801, 9802, 9803	Graduate Internship I, II, III (in IS)	3
CIS 9230	Globalization and Technology	3	CIS 9230	Globalization and Technology	3
CIS 9240	Sustainability and IT	3	CIS 9240	Sustainability and IT	3
CIS 9310	Object-Oriented Programming I	3	CIS 9310	Object-Oriented Programming I	3
CIS 9350	Networks and Telecommunications	3	CIS 9350	Networks and Telecommunications	3
CIS 9355	Cyber Security	3	CIS 9355	Cyber Security	3
CIS 9375	Social Technology and Business	3	CIS 9375	Social Technology and Business	3
CIS 9410	Object-Oriented Programming II	3	CIS 9410	Object-Oriented Programming II	3
CIS 9440	Data Warehousing and Analytics	3	CIS 9440	Data Warehousing and Analytics	3
CIS 9444	e-Business Principles and Technologies	3	CIS 9444	e-Business Principles and Technologies	3
CIS 9445	Digital Media Management	3	CIS 9445	Digital Media Management	3
CIS 9467	Business Modeling with Spreadsheets	3	CIS 9467	Business Modeling with Spreadsheets	3
CIS 9480	Information Technology	3	CIS 9480	Information Technology	3

	Project Management			Project Management	
CIS 9550	Emerging Trends in Information Technologies	3	CIS 9550	Emerging Trends in Information Technologies	3
CIS 9555	Information Technology in Financial Markets	3	CIS 9555	Information Technology in Financial Markets	3
CIS 9556	Risk Management Systems	3	CIS 9556	Risk Management Systems	3
CIS 9557	Business Analytics	3	CIS 9557	Business Analytics	3
CIS 9650	Programming for Analytics	3	CIS 9650	Programming for Analytics	3
CIS 9655	Data Visualization	3	CIS 9655	Data Visualization	3
CIS/STA 9660	Data Mining for Business Analytics	3	CIS/STA 9660	Data Mining for Business Analytics	3
CIS 9700	Integrating Information Technology and Business Processes	3	CIS 9700	Integrating Information Technology and Business Processes	3
CIS 9791	Special Topics in Information Technologies	1.5	CIS 9791	Special Topics in Information Technologies	1.5
CIS 9793 (formerly CIS 9771)	Special Topics in Information Technologies	3	CIS 9793 (formerly CIS 9771)	Special Topics in Information Technologies	3
CIS 9795	Special Topics in Information Systems Strategy	1.5	CIS 9795	Special Topics in Information Systems Strategy	1.5
CIS 9797 (formerly CIS 9775)	Special Topics in Information Systems Strategy	3	CIS 9797 (formerly CIS 9775)	Special Topics in Information Systems Strategy	3
			CIS 9558	Information Technology Audit	<u>3</u>
Business Electives: Choose 0-6 credits from the list below:			Business Electives: Choose 0-6 credits from the list below:		
OPR 9721	Introduction to Quantitative Modeling	3	OPR 9721	Introduction to Quantitative Modeling	3
STA 9708	Applied Statistical Analysis for Business Decisions	3	STA 9708	Applied Statistical Analysis for Business Decisions	3
ACC 9110	Financial Accounting	3	ACC 9110	Financial Accounting	3
ACC 9810	Contemporary Topics in Accounting	3	ACC 9810	Contemporary Topics in Accounting	3
ACC 9993	Special Topics in Accounting	3	ACC 9993	Special Topics in Accounting	3
FIN 9770	Corporate Finance	3	FIN 9770	Corporate Finance	3
MGT 9700**	Managing Business Operations	3	MGT 9700**	Managing Business Operations	3

* In lieu of CIS 9000, students may take a combination of CIS 9001 and CIS 9002 to satisfy the degree requirements. Students may use CIS 9000 in lieu of CIS 9001 for pre or co-requisites.

** In lieu of MGT 9700, students may take a combination of MGT 9702 and 9704 to satisfy the degree requirements.

Concentration in Data Analytics:			Concentration in Data Analytics:		
Students will take all required courses (13.5 credits), and will select 9-12 credits from the following list of electives. To complete the remaining 6-9 elective credits, students will select from the information systems and business electives listed above.			Students will take all required courses (13.5 credits), and will select 9-12 credits from the following list of electives. To complete the remaining 6-9 elective credits, students will select from the information systems and business electives listed above.		
CIS/STA 9660	Data Mining for Business Analytics	3	CIS/STA 9660	Data Mining for Business Analytics	3
CIS 9310 (OR) CIS 9650	Object-Oriented Programming I Programming for Analytics	3 3	CIS 9310 (OR) CIS 9650	Object-Oriented Programming I Programming for Analytics	3 3
CIS 9440	Data Warehousing and Analytics	3	CIS 9440	Data Warehousing and Analytics	3
CIS 9655	Data Visualization	3	CIS 9655	Data Visualization	3

Rationale: CIS 9558 is being added as an elective in the MS IS program. This course has been offered as a special topics course for several semesters, with enrollments running around 20-25 students per semester. This change will broaden our graduate offerings in the areas of data assurance and cybersecurity. The course content is targeted to IS, Accountancy, and Operations Management students, but its content is relevant to all business disciplines.

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 November 30, 2017 effective the Fall 2018 semester, pending approval of the Board of Trustees.

All: Changes in Degree Programs

All.1.1 The following revisions are proposed for the BA in Actuarial Science

Program: BA in Actuarial Science

Program Codes: 82292 and 60001 (Macaulay Honors)

HEGIS Code: 1799.00

Effective: Fall 2018

FROM	TO
The field of actuarial science applies mathematical principles and techniques to problems in the insurance industry. Progress in the field is generally based upon completion of examinations given by the Society of Actuaries. The Baruch College major is designed to prepare students to pass the P, FM, MFE, MLC and C exams offered by the Society of	The field of actuarial science applies mathematical principles and techniques to problems in the insurance industry. Progress in the field is generally based upon completion of examination given by the Society of Actuaries. The Baruch College major is designed to prepare students to pass the P, FM, MFE, MLC, and C exams offered by the Society of Actuaries. <u>Classes are offered</u>

Actuaries. Students interested in this highly structured program are urged to contact the Department of Mathematics as early as possible so that the department may assign an advisor to aid in formulating an appropriate course of study.			that fulfill current VEE (Validation by Educational Experience) requirements in economics, finance, and statistics. Students interested in this highly structured program are urged to meet with an advisor in the Department of Mathematics as early as possible for assistance in formulating an appropriate course of study.		
Math Program Prerequisites			Math Program Prerequisites		
Based on placement, follow one of the following preliminary calculus options below:			Based on placement, follow one of the following preliminary calculus options below:		
Course	Description	Crs	Course	Description	Crs
Option 1	MTH 2610 Calculus I MTH 3010 Calculus II	4 4	Option 1	Calculus AP Exam (BC) with a score of 4 or 5 (transfers to Baruch as MTH 3010 Calculus II) And one of the following: <u>MTH 3020 Intermediate Calculus</u> <u>MTH 3050 Multi-Variable and Vector Calculus *</u>	<u>8 credits</u>
or			or		
Option 2	MTH 2205 Applied Calculus II MTH 3006 Integral Calculus	3 4	Option 2	Calculus AP Exam (AB) with a score of 4 or 5 (transfers to Baruch as MTH 2610 Calculus I) And <u>MTH 3010 Calculus II</u> And one of the following: <u>MTH 3020 Intermediate Calculus</u> <u>MTH 3050 Multi-Variable and Vector Calculus *</u>	<u>12 credits</u>
or			or		
Option 3	MTH 2207 Applied Calculus and Matrix Algebra MTH 3006 Integral Calculus	4 4	Option 3	<u>MTH 2610 Calculus I</u> And <u>MTH 3010 Calculus II</u> And one of the following: <u>MTH 3020 Intermediate Calculus</u>	<u>12 credits</u>

				<u>MTH 3050 Multi-Variable and Vector Calculus *</u>	
or			or		
Option 4	MTH 3006 Integral Calculus Or MTH 3010 Calculus II	4 4	Option 4	<u>MTH 2205 or MTH 2206 Applied Calculus</u> or <u>MTH 2207 Applied Calculus and Matrix Applications</u> And the following two courses: <u>MTH 3006 Integral Calculus</u> <u>MTH 3030 Analytic Geometry and Calculus II</u>	<u>12-13 credits</u>
or			or		
Option 5 *	MTH 3006 Integral Calculus And MTH 3007 Infinite Series	4 4	Option 5	<u>MTH 2205 or MTH 2206 Applied Calculus</u> or <u>MTH 2207 Applied Calculus and Matrix Applications</u> And <u>MTH 3006 Integral Calculus</u> And <u>MTH 3007 Infinite Series</u> And one of the following: <u>MTH 3020 Intermediate Calculus</u> <u>MTH 3050 Multi-Variable and Vector Calculus *</u>	<u>12-13 credits</u>
And complete one of the following courses:			or		
MTH 3020	Intermediate Calculus	4	Option 6	<u>MTH 2630 Analytic Geometry and Calculus I</u> <u>MTH 3030 Analytic Geometry and Calculus II</u>	<u>10 credits</u>

Or					
MTH 3030	Analytic Geometry and Calculus II	5	* MTH 3050 is not open to students who completed MTH 3020, MTH 3030, MTH 3035, or their equivalents.		
Or					
MTH 3050	Multi-Variable and Vector Calculus	4			
Business Program Prerequisites			Business Program Prerequisites		
ACC 2101	Principles of Accounting	3	ACC 2101	Principles of Accounting	3
BUS 1000	Introduction to Business **	3	BUS 1000	Introduction to Business **	3
or			or		
BUS 1011	Business Fundamentals: The Contemporary Business Landscape **	3	BUS 1011	Business Fundamentals: The Contemporary Business Landscape **	3
CIS 2200	Introduction to Information Systems and Technologies **	3	CIS 2200	Introduction to Information Systems and Technologies **	3
ECO 1001	Micro-Economics	3	ECO 1001	Micro-Economics	3
ECO 1002	Macro-Economics	3	ECO 1002	Macro-Economics	3
STA 2000	Business Statistics I **	3	STA 2000	Business Statistics I **	3
NOTES:			NOTES:		
* Students who completed Option 5 (both MTH 3006 and MTH 3007) may register for MTH 3020 or MTH 3050.			** Students who have completed MTH 4120 or both MTH 3120 and MTH 4119, may have the following FIN 3000 prerequisites waived: BUS 1000/BUS 1011, CIS 2200, and STA 2000. Please consult the Weissman Associate Dean's Office to request registration permission.		
** Students who have completed MTH 4120 Introduction to Probability, may be waived from BUS 1000/BUS 1011, CIS 2200, and STA 2000. Please consult the Weissman Associate Dean's Office to request registration permission.					
Required Courses			Required Courses		
MTH 3300	Algorithms, Computers, and Programming I	3	MTH 3300	Algorithms, Computers, and Programming I	3
MTH 4120	Introduction to Probability ***	4	MTH 4120	Introduction to Probability ***	4
MTH 4410	Theory of Interest	4	MTH 4410	Theory of Interest	4
MTH 4500	Introductory Financial Mathematics	4	MTH 4500	Introductory Financial Mathematics	4
FIN 3000	Principles of Finance	3	FIN 3000	Principles of Finance	3
FIN 3610	Corporate Finance	3	FIN 3610	Corporate Finance	3
*** Students who have completed MTH 3120			*** Students who have completed MTH 3120		

cannot enroll in MTH 4120. They must satisfy the probability requirement by registering for MTH 4119 as an independent study (please consult the Department of Mathematics).			cannot enroll in MTH 4120. They must satisfy the probability requirement by registering for MTH 4119 as an independent study (please consult the Department of Mathematics).		
Electives - In addition, one course must be chosen from the following list of electives:			Electives - In addition, one course must be chosen from the following list of electives:		
MTH 4115	Numerical Methods for Differential Equations in Finance	4	MTH 4115	Numerical Methods for Differential Equations in Finance	4
MTH 4125	Introduction to Stochastic Processes	4	MTH 4125	Introduction to Stochastic Processes	4
MTH 4130	Mathematics of Statistics	4	MTH 4130	Mathematics of Statistics	4
MTH 4135	Methods of Monte Carlo Simulation	3	MTH 4135	Methods of Monte Carlo Simulation	3
MTH 4420	Actuarial Mathematics	4	MTH 4420	Actuarial Mathematics	4
MTH 4421	Actuarial Mathematics II	4	MTH 4421	Actuarial Mathematics II	4
MTH 4451	Risk Theory	4	MTH 4451	Risk Theory	4
MTH 5500	Stochastic Calculus for Finance	4	MTH 5500	Stochastic Calculus for Finance	4
The following courses are recommended, but not required. They are not applicable toward the major.			The following courses are recommended, but not required. They are not applicable toward the major.		
ECO 3100	Intermediate Micro-Economics	3	ECO 3100	Intermediate Micro-Economics	3
ECO 3200	Intermediate Macro-Economics	3	ECO 3200	Intermediate Macro-Economics	3
Subtotal: 41-56 (Mathematics Program Prerequisites, Business Program Prerequisites, Required Courses, and Major Elective)			Subtotal: 41-56 (Mathematics Program Prerequisites, Business Program Prerequisites, Required Courses, and Major Elective)		
Total credits required for the BA degree: 120			Total credits required for the BA degree: 120		

Rationale: The major description is being updated to include all possible alternatives for satisfying the program's calculus prerequisites.

All.1.2 The following revisions are proposed for the BA in Mathematics

Program: BA in Mathematics

Program Codes: 01961 and 60019 (Macaulay Honors)

HEGIS Code: 1701.00

Effective: Fall 2018

FROM			TO		
<p>The major in mathematics is designed to enable the student to enter the marketplace (industrial or educational) or to pursue further studies in mathematics or allied fields at the graduate level. Interested students are urged to contact the Department of Mathematics as early as possible. The student will be assigned an advisor who will aid in formulating an appropriate course of study. Students who want to teach mathematics in the secondary schools should consult an advisor in the Center for Advisement and Orientation.</p>			<p>The major in mathematics is designed to enable the student to enter the marketplace (industrial or educational) or to pursue further studies in mathematics or allied fields at the graduate level. Interested students <u>should meet with an advisor in the Department of Mathematics as early as possible for assistance</u> in formulating an appropriate course of study.</p>		
<p>Required Courses</p> <p>All students must take the following three courses:</p>			<p>Math Program Prerequisites:</p> <p><u>As a preliminary requirement, students must complete the calculus prerequisite, which may be achieved by any one of the six options.</u></p>		
Course	Description	Crs	Course	Description	Crs
MTH 3300	Algorithms, Computers and Programming I	3 credits	Option 1	Calculus AP Exam (BC) with a score of 4 or 5 (transfers to Baruch as MTH 3010 Calculus II) And one of the following MTH 3020 Intermediate Calculus or MTH 3050 Multi-Variable and Vector Calculus *	8 credits
MTH 4010	Advanced Calculus I (effective spring 2018: course title changes to Mathematical Analysis I)	3 credits	or		
MTH 4100	Linear Algebra and Matrix Methods	3 credits	Option 2	Calculus AP Exam (AB) with a score of 4 or 5 (transfers to Baruch as MTH 2610 Calculus I). And MTH 3010 Calculus I And one of the following MTH 3020 Intermediate Calculus or MTH 3050 Multi-Variable and Vector Calculus *	12 credits
<p><i>and may take the following course, depending on the trajectory of their academic career.</i></p>			<p>or</p>		

MTH 4009	Proof Writing for Advanced Calculus*	1 credit	Option 3	<p><u>MTH 2610 Calculus I</u></p> <p>And</p> <p><u>MTH 3010 Calculus II</u></p> <p>And one of the following</p> <p><u>MTH 3020 Intermediate Calculus or</u></p> <p><u>MTH 3050 Multi-Variable and Vector Calculus *</u></p>	12 credits
			or		
<p>* MTH 4009 Proof Writing for Advanced Calculus is designed for students who want additional exposure to proof writing before enrolling in MTH 4010. It may be used in the mathematics major only if completed as a prerequisite for MTH 4010, and it is not open to students who have credit for one of the following courses: MTH 4000; MTH 4010; MTH 4200; MTH 4210; MTH 4215; MTH 4220; MTH 4240; or MTH 4315.</p> <p>Please consult a faculty advisor in the Department of Mathematics before enrolling in this course.</p>			Option 4	<p><u>MTH 2205 or MTH 2206 Applied Calculus</u></p> <p>or</p> <p><u>MTH 2207 Applied Calculus and Matrix Applications</u></p> <p>And the following two courses:</p> <p><u>MTH 3006 Integral Calculus</u></p> <p><u>MTH 3030 Analytic Geometry and Calculus II</u></p>	12-13 credits
			or		
<p>Students may fulfill their calculus requirements by any one of the following three alternate calculus tracks:</p>			Option 5	<p><u>MTH 2205 or MTH 2206 Applied Calculus</u></p> <p>or</p> <p><u>MTH 2207 Applied Calculus and Matrix Applications</u></p> <p>And</p> <p><u>MTH 3006 Integral Calculus</u></p> <p>And</p> <p><u>MTH 3007 Infinite Series</u></p> <p>And one of the following</p> <p><u>MTH 3020 Intermediate Calculus or</u></p> <p><u>MTH 3050 Multi-Variable and Vector Calculus *</u></p>	12-13 credits
Track 1	<u>MTH 2610 Calculus I</u>	4 credits	or		

	MTH 3010 Calculus II	4 credits	Option 6	MTH 2630 Analytic Geometry and Calculus I	10 credits
				MTH 3030 Analytic Geometry and Calculus II	
	MTH 3020 Intermediate Calculus	4 credits	* MTH 3050 is not open to students who completed MTH 3020, MTH 3030, MTH 3035, or their equivalent.		
	or				
	MTH 3050 Multi-Variable and Vector Calculus	4 credits	Required Courses		
			All students must take the following three courses:		
or			MTH 3300	Algorithms, Computers and Programming I	3 credits
Track 2	MTH 2630 Analytic Geometry and Calculus I	5 credits	MTH 4010	Advanced Calculus I <i>effective spring 2018: course title changes to Mathematical Analysis I</i>	3 credits
	MTH 3030 Analytic Geometry and Calculus II	5 credits	MTH 4100	Linear Algebra and Matrix Methods	3 credits
or					
Track 3	MTH 2205 Applied Calculus	3 credits			
	or				
	MTH 2207 Applied Calculus and Matrix Applications	4 credits			
	MTH 3006 Integral Calculus	4 credits			
	MTH 3030 Analytic Geometry and Calculus II	5 credits			
Electives			Electives		
Any four 4000-level or 5000-level courses from the following group:			Students must complete at least 15 elective credits from the following group of courses:		
MTH 4020	Advanced Calculus II	3 credits	MTH 4009	Proof Writing for Advanced Calculus	1 credit
MTH 4030	Topology	3 credits	MTH 4020	Advanced Calculus II	3 credits
MTH 4110	Ordinary Differential Equations	3 credits	MTH 4030	Topology	3 credits
MTH 4115	Numerical Methods for Differential Equations in Finance	4 credits	MTH 4110	Ordinary Differential Equations	3 credits
MTH 4120	Introduction to Probability	4 credits	MTH 4115	Numerical Methods for Differential Equations in Finance	4 credits
MTH 4125	Introduction to Stochastic	4 credits	MTH 4120	Introduction to Probability	4

	Process				credits
MTH 4130	Mathematics of Statistics	4 credits	MTH 4125	Introduction to Stochastic Process	4 credits
MTH 4135	Computational Methods in Probability	3 credits	MTH 4130	Mathematics of Statistics	4 credits
MTH 4140	Graph Theory	3 credits	MTH 4135	Computational Methods in Probability	3 credits
MTH 4145	Mathematical Modeling *	3 credits	MTH 4140	Graph Theory	3 credits
MTH 4150	Combinatorics	3 credits	MTH 4145	Mathematical Modeling *	3 credits
MTH 4200	Theory of Numbers	3 credits	MTH 4150	Combinatorics	3 credits
MTH 4210	Elements of Modern Algebra	3 credits	MTH 4200	Theory of Numbers	3 credits
MTH 4230	History of Mathematics	3 credits	MTH 4210	Elements of Modern Algebra	3 credits
MTH 4240	Differential Geometry *	3 credits	MTH 4220	Introduction to Modern Geometry	3 credits
MTH 4300	Algorithms, Computers and Programming II *	3 credits	MTH 4230	History of Mathematics	3 credits
MTH 4310	Methods of Numerical Analysis	3 credits	MTH 4240	Differential Geometry *	3 credits
MTH 4315	Introduction to Mathematical Logic	3 credits	MTH 4300	Algorithms, Computers and Programming II	3 credits
MTH 4320	Fundamental Algorithms	3 credits	MTH 4310	Methods of Numerical Analysis	3 credits
MTH 4500	Introductory Financial Mathematics	4 credits	MTH 4315	Introduction to Mathematical Logic	3 credits
MTH 5010	Advanced Calculus III *	3 credits	MTH 4320	Fundamental Algorithms	3 credits
MTH 5020	Theory of Functions of a Complex Variable *	3 credits	MTH 4420	Actuarial Mathematics I	4 credits
MTH 5030	Theory of Functions of Real Variables*	3 credits	MTH 4421	Actuarial Mathematics II	4 credits
MTH 5100	Partial Differential Equations and Boundary Value Problems*	4 credits	MTH 4451	Short-Term Insurance Mathematics	4 credits
MTH 5500	Stochastic Calculus for Finance	4 credits	MTH 4500	Introductory Financial Mathematics	4 credits
			MTH 4600	Data Analysis and Simulation for Financial Engineers	4 credits
			MTH 5010	Advanced Calculus III *	3 credits
			MTH 5020	Theory of Functions of a Complex Variable	3 credits

			MTH 5030	Theory of Functions of Real Variables*	3 credits
			MTH 5100	Partial Differential Equations and Boundary Value Problems*	4 credits
			MTH 5500	Stochastic Calculus for Finance	4 credits
* These courses are offered infrequently, subject to student demand.			* These courses are offered infrequently, subject to student demand.		
Subtotal: 31-38 (Calculus Track, Required Courses, and Major Electives)			Subtotal: 32-37 (Mathematics Program Prerequisites, Required Courses, and Major Electives)		
Total credits required for the BA degree: 120			Total credits required for the BA degree: 120		

Rationale: The major description is being updated to clearly delineate program prerequisites from required courses in the major, and to include all possible alternatives for satisfying the program’s calculus prerequisites. Several courses have been added to the electives list to correct an earlier omission. The asterisk notations that MTH 4300 and MTH 5020 are offered infrequently are being removed, because both courses are now part of the math department’s regular offerings. The electives requirement is being revised to ensure that students complete at least 24 credits within the major.

All.1.3 The following revisions are proposed for the Minor in Mathematics

From : Minor in Mathematics			To : Minor in Mathematics		
<p>The minor in mathematics provides students with a background in the various theories and uses of mathematics. The minor requires the completion of MTH 3006 or MTH 3010 and any other 3- or 4-credit mathematics course numbered 3000 or higher, with the exceptions of MTH 3007 and MTH 4009 (which are not applicable toward the minor). Students must then complete a capstone course consisting of any mathematics course at the 4000-level or higher with the exception of MTH 4410 (which may not be used as a capstone course).</p>			<p>The minor in mathematics provides students with a background in the various theories and uses of mathematics. The minor requires the completion of MTH 3006, MTH 3010, <u>MTH 3020</u>, <u>MTH 3030</u>, or <u>MTH 3050</u>, and any other 3- or 4- or 5-credit mathematics course numbered 3000 or higher with the exception of <u>MTH 4410</u> (which is not applicable toward the minor). Students must then complete a capstone course consisting of any mathematics course at the 4000-level or higher with the exceptions of <u>MTH 4009</u>, <u>MTH 4119</u>, and <u>MTH 4410</u> (which may not be used as a capstone course).</p>		
			<p><u>Math Minor Program Requirements:</u></p> <p><u>Required Course</u></p> <p>All students must take one of the following courses:</p>		
			Course	Description	Credits
			MTH 3006	<u>Integral Calculus</u>	<u>4 credits</u>

			MTH 3010	<u>Calculus II</u>	<u>4 credits</u>
			MTH 3020	<u>Intermediate Calculus</u>	<u>4 credits</u>
			MTH 3030	<u>Analytic Geometry and Calculus II</u>	<u>5 credits</u>
			MTH 3050	<u>Multi-variable and Vector Calculus</u>	<u>4 credits</u>
			Electives Students must take any two other courses from the following list with at least one of the courses being a 4000-level or higher capstone course.		
			MTH 3020	<u>Intermediate Calculus</u>	<u>4 credits</u>
			MTH 3030	<u>Analytic Geometry and Calculus II</u>	<u>5 credits</u>
			MTH 3050	<u>Multi-variable and Vector Calculus</u>	<u>4 credits</u>
			MTH 3120	<u>Elementary Probability</u>	<u>3 credits</u>
			MTH 3300	<u>Algorithms, Computers and Programming I</u>	<u>3 credits</u>
			MTH 4000	<u>Bridge to Higher Mathematics</u>	<u>3 credits</u>
			MTH 4010	<u>Mathematical Analysis I (formerly Advanced Calculus)</u>	<u>3 credits</u>
			MTH 4020	<u>Advanced Calculus II</u>	<u>3 credits</u>
			MTH 4030	<u>Topology</u>	<u>3 credits</u>
			MTH 4100	<u>Linear Algebra and Matrix Methods</u>	<u>3 credits</u>
			MTH 4110	<u>Ordinary Differential Equations</u>	<u>3 credits</u>
			MTH 4115	<u>Numerical Methods for Differential Equations in Finance</u>	<u>4 credits</u>
			MTH 4120	<u>Introduction to Probability</u>	<u>4 credits</u>
			MTH 4125	<u>Introduction to Stochastic Process</u>	<u>4 credits</u>
			MTH 4130	<u>Mathematics of Statistics</u>	<u>4 credits</u>
			MTH 4135	<u>Computational Methods in Probability</u>	<u>3 credits</u>
			MTH 4140	<u>Graph Theory</u>	<u>3 credits</u>
			MTH	<u>Mathematical Modeling *</u>	<u>3 credits</u>

			4145		
			MTH 4150	<u>Combinatorics</u>	<u>3 credits</u>
			MTH 4200	<u>Theory of Numbers</u>	<u>3 credits</u>
			MTH 4210	<u>Elements of Modern Algebra</u>	<u>3 credits</u>
			MTH 4220	<u>Introduction to Modern Geometry</u>	<u>3 credits</u>
			MTH 4230	<u>History of Mathematics</u>	<u>3 credits</u>
			MTH 4240	<u>Differential Geometry *</u>	<u>3 credits</u>
			MTH 4300	<u>Algorithms, Computers and Programming II</u>	<u>3 credits</u>
			MTH 4310	<u>Methods of Numerical Analysis</u>	<u>3 credits</u>
			MTH 4315	<u>Introduction to Mathematical Logic</u>	<u>3 credits</u>
			MTH 4320	<u>Fundamental Algorithms</u>	<u>3 credits</u>
			MTH 4420	<u>Actuarial Mathematics I</u>	<u>4 credits</u>
			MTH 4421	<u>Actuarial Mathematics II</u>	<u>4 credits</u>
			MTH 4451	<u>Short-Term Insurance Mathematics</u>	<u>4 credits</u>
			MTH 4500	<u>Introductory Financial Mathematics</u>	<u>4 credits</u>
			MTH 4600	<u>Data Analysis and Simulation for Financial Engineers</u>	<u>4 credits</u>
			MTH 5010	<u>Advanced Calculus III *</u>	<u>3 credits</u>
			MTH 5020	<u>Theory of Functions of a Complex Variable</u>	<u>3 credits</u>
			MTH 5030	<u>Theory of Functions of Real Variables*</u>	<u>3 credits</u>
			MTH 5100	<u>Partial Differential Equations and Boundary Value Problems*</u>	<u>4 credits</u>
			MTH 5500	<u>Stochastic Calculus for Finance</u>	<u>4 credits</u>
			* These courses are offered infrequently, subject to student demand.		

Rationale: The list of classes approved for the calculus requirement for the minor is being expanded to accommodate students receiving transfer credit for Math 2630, who may not take MTH 3006 or MTH 3010. Additional changes were made to clarify that Math 3030 may be applied toward the minor, but

Math 4009, Math 4119, and Math 4410 are not applicable toward the minor. The asterisk notations that MTH 4300 and MTH 5020 are offered infrequently are being removed, because both courses are now part of the math department's regular offerings.

All.1.4 The following revisions are proposed for the Minor in Physics

From : Minor in Physics	To : Minor in Physics
<p>The physics minor is suitable for students with an interest in the application of mathematical tools to fundamental scientific laws. The program emphasizes both mathematical ideas and classic experiments. Students with no previous exposure to physics are encouraged to take PHY 1003 Concepts in Physics, before beginning the minor.</p>	<p>The physics minor is suitable for students with an interest in the application of mathematical tools to fundamental scientific laws. The program emphasizes both mathematical ideas and classic experiments.</p>
<p>To satisfy the minor, students must take three courses, two at the 3000-level or above, and a capstone at the 4000-level or above from among the following list:</p>	<p>To satisfy the minor, students must take three courses, two at the 3000-level or above, and a capstone at the 4000-level or above.</p> <p><u>Examples of possible course sequences in the physics minor are:</u></p> <p><u>Biomedical Track</u></p> <p><u>PHY 3001 (General Physics II)</u></p> <p><u>PHY 3500 (Biological Applications to Physics)</u></p> <p><u>PHY 4130 (Modern Physics)</u></p> <p><u>Astrophysics Track</u></p> <p><u>PHY 3010 (Quantitative Physics I)</u></p> <p><u>PHY 3020 (Quantitative Physics II)</u></p> <p><u>PHY 4201 (Astrophysics)</u></p> <p><u>Particle Physics Track</u></p> <p><u>PHY 3010 (Quantitative Physics I)</u></p> <p><u>PHY 3020 (Quantitative Physics II)</u></p> <p><u>PHY 4140 (Nuclear and Particle Physics)</u></p> <p><u>Computational Physics and Finance Track</u></p> <p><u>PHY 3004 (Physics on the Computer with Python)</u></p> <p><u>PHY 3020 (Quantitative Physics II)</u></p> <p><u>PHY 4004 (Statistical Physics with Applications to Mathematical Finance)</u></p>

Theoretical Physics Track

PHY 3010 (Quantitative Physics I)

PHY 3020 (Quantitative Physics II)

PHY 3200 (Methods of Theoretical Physics) - Recommended

PHY 4130 (Modern Physics)

Students are free to construct their own minor from any set of three physics courses satisfying the general conditions for the minor. Physics courses at the 3000 level or higher at Baruch College include:

Course	Description	Credits	Course	Description	Credits
PHY 3001	General Physics II	4	PHY 3001	General Physics II	4
PHY 3004	Physics on the Computer with Python	4	PHY 3004	Physics on the Computer with Python	4
PHY 3010	Quantitative Physics I	5	PHY 3010	Quantitative Physics I	5
PHY 3020	Quantitative Physics II	5	PHY 3020	Quantitative Physics II	5
PHY 3200	Methods of Theoretical Physics	3	PHY 3200	Methods of Theoretical Physics	3
PHY 4130	Modern Physics	4	PHY 3500	Biological Applications of Physics	4
PHY 4140	Introduction to Nuclear and Particle Physics	3	PHY 4004	Statistical Physics with Applications to Mathematical Finance	4
PHY 4201	Astrophysics	4	PHY 4130	Modern Physics	4
PHY 5000-5004	Independent Study	Hours and credits to be arranged	PHY 4140	Introduction to Nuclear and Particle Physics	3
PHY 6001H-6002H	Honors	Hours to be arranged; usually 4 credits per semester	PHY 4201	Astrophysics	4
			PHY 5000-5004	Independent Study	Hours and credits to be arranged
			PHY 6001H-	Honors	Hours to be

			6002H		arranged; usually 4 credits per semester
Recommended Courses in the Department of Mathematics			Recommended Courses in the Department of Mathematics		
MTH 2610	Calculus I	4	MTH 2610	Calculus I	4
MTH 3010	Elementary Calculus II	4	MTH 3010	Elementary Calculus II	4
MTH 3020	Intermediate Calculus	4	MTH 3020	Intermediate Calculus	4

Rationale: PHY 1003 is being removed from the minor description, as it will no longer be offered at Baruch. Any two physics courses 3000 or above and any one course 4000 or above should satisfy the requirements for the Physics Minor. As new courses are being introduced, they should automatically be eligible for this general requirement. Listing specific courses is causing problems for students taking new courses that have not yet been included in the Minor description (eg. PHY 3004). Five possible tracks for the Physics Minor are added for the benefit of the students who might consider completing the minor. PHY 3004, PHY 3500, and PHY 4004 (a new course proposed in the December 2017 CUR) are added to the current list, which will be regularly updated.

All.1.5. The following revisions are proposed for the Major in Psychology

Program: BA in Psychology

Program Codes: 01963 and 60023 (Macaulay Honors)

HEGIS Code: 2001.00

Effective Term: Fall 2018

To : Major in Psychology	To : Major in Psychology
<p>Psychology is the scientific study of human behavior and the mind. According to the American Psychological Association, "Psychology is a diverse discipline, grounded in science, but with nearly boundless applications in everyday life. Some psychologists do basic research, developing theories and testing them through carefully honed research methods involving observation, experimentation and analysis. Other psychologists apply the discipline's scientific knowledge to help people, organizations and communities function better."</p> <p>Baruch faculty have particular strengths in industrial-organizational, clinical, social, cognitive neuroscience, and developmental psychology. The psychology major is the most popular course of study among undergraduate</p>	<p>Psychology is the scientific study of human behavior and the mind. According to the American Psychological Association, "Psychology is a diverse discipline, grounded in science, but with nearly boundless applications in everyday life. Some psychologists do basic research, developing theories and testing them through carefully honed research methods involving observation, experimentation and analysis. Other psychologists apply the discipline's scientific knowledge to help people, organizations and communities function better."</p> <p>Baruch faculty have particular strengths in industrial-organizational, clinical, social, cognitive neuroscience, and developmental psychology. The psychology major is the most popular course of study among undergraduate students nationwide.</p>

students nationwide. Many psychology majors ultimately establish careers outside the field of psychology, but do so in areas that rely upon an understanding of human thought and behavior. Psychology is an appropriate major for those who plan to work, for example, in business, law, the health care professions, education, public affairs, nonprofit agencies, and computer science.

To prepare for a career in psychology or an allied profession, such as social work or counseling, students must earn a master's or doctoral degree. Graduate programs in psychology are selective and take into consideration a student's academic record, letters of recommendation, field and research experience, and, in most cases, GRE scores. A number of American Psychological Association publications, including the APA Guide to Graduate Study in Psychology, are useful when making academic and career plans.

Baruch offers a 25-credit BA major in Psychology. This includes one required course in research methods, 12 credits of foundation courses, and 9 credits of electives.

You are required to meet with a faculty advisor in psychology to declare a major. The faculty advisor will discuss with you the foundation and elective courses that best meet your career goals. Students who wish to develop their research skills should consider pursuing an independent study or honors thesis project. It is also recommended that students take courses in other departments that focus on the scientific method, logic, communication skills, and the understanding of cultural and social systems.

Many psychology majors ultimately establish careers outside the field of psychology, but do so in areas that rely upon an understanding of human thought and behavior. Psychology is an appropriate major for those who plan to work, for example, in business, law, the health care professions, education, public affairs, nonprofit agencies, and computer science.

To prepare for a career in psychology or an allied profession, such as social work or counseling, students must earn a master's or doctoral degree. Graduate programs in psychology are selective and take into consideration a student's academic record, letters of recommendation, field and research experience, and, in most cases, GRE scores. A number of American Psychological Association publications, including the APA Guide to Graduate Study in Psychology, are useful when making academic and career plans.

Baruch offers a 25-credit BA major in Psychology. This includes one required course in research methods, 12 credits of foundation courses, and 9 credits of electives.

You are required to meet with a faculty advisor in psychology to declare a major. The faculty advisor will discuss with you the foundation and elective courses that best meet your career goals. Students who wish to develop their research skills should consider pursuing an independent study or honors thesis project. It is also recommended that students take courses in other departments that focus on the scientific method, logic, communication skills, and the understanding of cultural and social systems.

Prerequisite courses:

Course	Description	Credits
PSY 1001	General Psychology	3
STA 2100	Statistics for Social Science	3

Prerequisite courses:

Course	Description	Credits
PSY 1001	General Psychology	3
PSY or STA 2100	Statistics for Social Science	3

*Students who took STA 2000 to fulfill BBA core requirements and who change their degree objective to the BA will be given permission to use STA 2000 in lieu of STA 2100. Psychology

*Students who took STA 2000 to fulfill BBA core requirements and who change their degree objective to the BA will be given permission to use STA 2000 in lieu of STA 2100. Psychology majors may *not* take STA 2100 on a pass/fail basis.

majors may <i>not</i> take STA 2100 on a pass/fail basis.					
Psychology Core:			Psychology Core:		
Required Course:			Required Course:		
PSY 3001	Research Methods in Psychology	4	PSY 3001	Research Methods in Psychology	4
Foundation Courses			Foundation Courses		
Choose four of the following courses: 12 credits			Choose four of the following courses: 12 credits		
PSY 3055	Abnormal Psychology	3	PSY 3055	Abnormal Psychology	3
PSY 3056	Social Psychology	3	PSY 3056	Social Psychology	3
PSY 3059	Developmental Psychology: Personality in Childhood and Adolescence *	3	PSY 3059	Developmental Psychology: Personality in Childhood and Adolescence *	3
or		3	or		3
PSY 3060	Developmental Psychology: Adult Personality *	3	PSY 3060	Developmental Psychology: Adult Personality *	3
PSY 3064	Personality and Individual Differences	3	PSY 3064	Personality and Individual Differences	3
PSY 3067	Psychology of Motivation and Learning	3	PSY 3067	Psychology of Motivation and Learning	3
PSY 3081	Cognitive Psychology	3	PSY 3081	Cognitive Psychology	3
PSY 3082	Mind, Brain, and Behavior	3	PSY 3082	Mind, Brain, and Behavior	3
* Students may not take both PSY 3059 and PSY 3060 to fulfill the core requirement.			* Students may not take both PSY 3059 and PSY 3060 to fulfill the core requirement.		
Elective Courses (3000-level or above): 6 credits			Elective Courses (3000-level or above): 6 credits		
Two courses of students' choosing. They may include courses that constitute part of the required core in psychology, if not otherwise used to fulfill core curriculum requirements, as well as any other elective course offered by the department.			Two courses of students' choosing. They may include courses that constitute part of the required core in psychology, if not otherwise used to fulfill core curriculum requirements, as well as any other elective course offered by the department.		
Elective Course (4000-level or above): 3 credits			Elective Course (4000-level or above): 3 credits		
One course of students' choosing. It must be at the 4000-level or above, and it must be completed at Baruch College. PSY 4035 and PSY 5030 do not fulfill this requirement, but can			One course of students' choosing. It must be at the 4000-level or above, and it must be completed at Baruch College. PSY 4035 and PSY 5030 do not fulfill this requirement, but can be used as 3000-level or above elective courses.		

be used as 3000-level or above elective courses.	
Subtotal: 25	Subtotal: 25
Total credits required for the BA degree: 120	Total credits required for the BA degree: 120

Rationale: PSY 2100 will be the replacement for STA 2100. The course title and content are effectively the same. STA 2100 is to be retired by the Zicklin School of Business

All.1.6 The following revisions are proposed for the Minor in Psychology

From: MINOR IN PSYCHOLOGY			From: MINOR IN PSYCHOLOGY		
The minor comprises three courses in Psychology, at least one of which must be a foundation course in psychology and at least one of which must be a capstone course at the 4000 level or above. The capstone course should be one of the department's communications-intensive options and must be taken at Baruch College. The selection of a suitable capstone should take the student's background in the discipline and academic interests into account and should be determined in consultation with the Department of Psychology.			The minor comprises three courses in Psychology, at least one of which must be a foundation course in psychology and at least one of which must be a capstone course at the 4000 level or above. The capstone course should be one of the department's communications-intensive options and must be taken at Baruch College. The selection of a suitable capstone should take the student's background in the discipline and academic interests into account and should be determined in consultation with the Department of Psychology.		
Course	Description	Crs	Course	Description	Crs
Foundation Courses: 3-6 credits			Foundation Courses: 3-6 credits		
PSY 3055	Abnormal Psychology	3	PSY 3055	Abnormal Psychology	3
PSY 3056	Social Psychology	3	PSY 3056	Social Psychology	3
PSY 3059	Developmental Psychology: Childhood and Adolescence*	3	PSY 3059	Developmental Psychology: Childhood and Adolescence*	3
PSY 3060	Developmental Psychology: Adult Personality*	3	PSY 3060	Developmental Psychology: Adult Personality*	3
PSY 3067	Psychology of Motivation and Learning	3	PSY 3067	Psychology of Motivation and Learning	3
PSY 3081	Cognitive Psychology	3	PSY 3081	Cognitive Psychology	3
PSY 3082	Mind, Brain, and Behavior	3	PSY 3082	Mind, Brain, and Behavior	3
PSY 4061	Personality Theory	3	PSY 4061	Personality Theory	3
*Students may not take both PSY 3059 and PSY 3060 to fulfill the core requirement.			*Students may not take both PSY 3059 and PSY 3060 to fulfill the core requirement.		
Elective courses: 0-3 credits			Elective courses: 0-3 credits		
PSY 3035	Philosophy of Psychology	3	PSY 3035	Philosophy of Psychology	3
PSY 3036	Psychology and Culture	3	PSY 3036	Psychology and Culture	3
PSY 3040-3046	Special Topics in Psychology	3	PSY 3040-3046	Special Topics in Psychology	3

PSY 3054	Psychology of Sleep	3	PSY 3054	Psychology of Sleep	3
PSY 3057	Psychology and Religion	3	PSY 3057	Psychology and Religion	3
PSY 3058	Small Group Processes	3	PSY 3058	Small Group Processes	3
PSY 3061	Psychology of Life Experience	3	PSY 3061	Psychology of Life Experience	3
PSY 3062	Psychology of Stress Management	3	PSY 3062	Psychology of Stress Management	3
PSY 3063	Health Psychology	3	PSY 3063	Health Psychology	3
PSY 3069	Psychology and the Law	3	PSY 3069	Psychology and the Law	3
PSY 3071	Psychology of Gender	3	PSY 3071	Psychology of Gender	3
PSY 3080	Psychology of Attention and Perception	3	PSY 3080	Psychology of Attention and Perception	3
PSY 3101	Political Psychology	3	PSY 3101	Political Psychology	3
PSY 3181	Industrial and Organizational Psychology	3	PSY 3181	Industrial and Organizational Psychology	3
PSY 3182	Interviewing Techniques	3	PSY 3182	Interviewing Techniques	3
PSY 3185	Environmental Psychology	3	PSY 3185	Environmental Psychology	3
PSY 3288	Psychology of Advertising	3	PSY 3288	Psychology of Advertising	3
PSY 3730	Literature and Psychology	3	PSY 3730	Literature and Psychology	3
Capstone course: Choose one of the following:			Capstone course: Choose one of the following:		
PSY 4010	Diversity in the Workplace	3	PSY 4010	Diversity in the Workplace	3
PSY 4012	Evolution of Modern Psychology	3	PSY 4012	Evolution of Modern Psychology	3
PSY 4013	Advanced Personnel Psychology	3	PSY 4013	Advanced Personnel Psychology	3
PSY 4051	Psychology of the Family	3	PSY 4039	Psychopathology of Childhood	3
PSY 4181	Advanced Organizational Psychology	3	PSY 4051	Psychology of the Family	3
PSY 4182	Occupational Health Psychology	3	PSY 4084	Drugs, Brain, and Society	3
PSY 4183	Psychology of Career Development and Planning	3	PSY 4181	Advanced Organizational Psychology	3
PSY 4184	Leadership and Managerial Development	3	PSY 4182	Occupational Health Psychology	3
PSY 4185	Psychology of Training and Development	3	PSY 4183	Psychology of Career Development and Planning	3
PSY 4900	Psychological Approaches to Contemporary Problems	3	PSY 4184	Leadership and Managerial Development	3
PSY 5000	Independent Study in Psychology (requires departmental permission)	3	PSY 4185	Psychology of Training and Development	3

			PSY 4900	Psychological Approaches to Contemporary Problems	3
			PSY 5000	Independent Study in Psychology (requires departmental permission)	3

Rationale: PSY 4039 was an inadvertent omission when the minor was last revised. It is an appropriate option for students who have an interest in child development and/or psychological disorders. The department offers relevant 3000-level courses in preparation for this capstone. PSY 4084 was approved in spring 2017, with the intention that it be one of the capstone courses. It provides an advanced elective for students who are interested in the neuroscience of psychology.

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	3095
Course Title	Facework Communication: Impression Management
Catalogue Description	This course examines interpersonal and cross-cultural theories related to improving effective communication generally, and between individuals from different cultures via the practice of facework. Particular focus will be placed on different methods of facework – the communication carried out to allow others to maintain their dignity while communicating and to prevent embarrassment – and theories related to facework prevalent in the communication field. Topics include Social Exchange Theory, Communication Accommodation Theory, Uncertainty Reduction Theory, Contact Theory, Face Negotiation Theory, and Attraction Theory, among other concepts to accomplish more effective communication through carrying out various communicative strategies.
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"/> <input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Fall 2018

Rationale: This course will be taught by an expert in facework and will include research elements that will benefit advanced students. Facework theories are important because they apply to a variety of settings, including business and educational settings.

COM 3095 will be offered once per year with a projected enrollment of 20 students. The course will serve as an elective in the Interpersonal and Group Communication concentration as well as the Intercultural and International Communication concentration in the Communication Studies major (NYSED program code 36820); as an elective in the Business Communication major with specialization in Corporate Communication (NYSED program codes 86011 and 60002); as an elective in the minor in Communication Studies; or as a general elective for the BA, BBA, and BS degrees.

AIV.1.2

Department(s)	Modern Languages and Comparative Literature, Asian and Asian American Studies Program, Film Studies Program
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	Comparative Literature, Asian and Asian American Studies, Film Studies
Course Prefix	CMP/AAS/FLM
Course Number	4907
Course Title	Film and Moving Image Culture in Japan
Catalogue Description	This course explores films and moving image works in Japan from the earliest period to the present. It also provides tools as well as concepts for examining how cinematic and other visual media work and communicate with their audiences, while enhancing students' analytic, interpretative, and argumentative skills. (Students will receive credit for only one of the following courses: AAS 4907; CMP 4907; or FLM 4907. These courses may substitute for each other in the F-replacement policy).
Prerequisites	ENG/CMP/LTT 2800 or 2850
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 checked="" type="checkbox"/> Not Applicable <input 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 2018

Rationale: The course is intended to offer more options for the Japanese minor, for the Asian and Asian American Studies minor, and liberal arts electives. Students will further develop and enhance critical media literacy and cultural sensitivity to Japanese culture while continuing to develop writing and analytical skills. Additionally, this course helps explore global viewpoints from a non-Western standpoint, introducing and exploring the cross-pollinating processes between Japan and Western cinematic and other visual narrative works.

The Department of Modern Languages and Comparative Literature is considered the home department for this course. CMP/AAS/FLM 4907 will be offered once per year with a projected enrollment of 25 students. It may be used as the capstone for either the Japanese minor or the Asian and Asian American Studies minor; as an elective for either the Comparative Literature minor or the Film Studies minor; or as a general elective for the BA, BBA, and BS degrees.

AIV.1.3

Department(s)	Psychology
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	PSY
Course Number	2100
Course Title	Statistics for Social Science
Catalogue Description	<p>This course is an introduction to statistical concepts and methods of organizing, presenting, and analyzing quantitative data used in the conduct of scientific research. Topics include measurement scales; descriptive statistics; basic probability and probability distributions; concepts of sample, population, and sampling distribution; elements of statistical inference; correlation; regression; one-sample and two-sample t-tests; and analysis of variance. The following distributions are examined and applied to the solution of problems: binomial, normal, t, and F distributions. Techniques for using statistical software as a tool to analyze data will be introduced.</p> <p>This course is not open to students who have taken BIO/ENV 2100, STA 2100, or STA 2000, and is not an option for BBA majors. PSY 2100 cannot be used in lieu of STA 2000 to satisfy pre –business core requirement for a Zicklin major, or to satisfy the prerequisite for any intermediate or advanced statistics course.</p> <p>STA 2100 and PSY 2100 may substitute for each other in the F-replacement policy.</p>
Prerequisites	One of the following courses: MTH 1030; MTH 2003; MTH 2205; MTH 2206; MTH 2207; MTH 2610; or any MTH course at the 3000-level or above.

	Neither MTH 2140 nor 2160 serves as a prerequisite for this course.
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"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Fall 2018

Rationale: This course has been offered for many years through the Zicklin School of Business as STA 2100, but taught by Psychology Department faculty. There is mutual agreement between Psychology and the Department of Statistics and Computer Information Systems for this course to be included within the Weissman School of Arts and Sciences curriculum. The Stat-CIS Department will be deleting STA 2100 via the Zicklin Curriculum Committee. PSY 2100 will be a required course for all psychology majors and a prerequisite for PSY 3001 (Research Methods in Psychology). This course is needed in the psychology curriculum because an understanding of statistical concepts is essential for students to be able to understand published research in psychology and to analyze and interpret results of their own psychological research.

PSY 2100 will be offered every semester with a projected enrollment of 30 students. This course will be used as a required course within the BA in Psychology (NYSED program codes 01963 and 60023), as an option for the statistics requirement within the Biological Science major (NYSED program code 35195), as a program prerequisite for the Business Communications major (NYSED program codes 86011 and 60002), or as a general elective for the BA, BBA, and BS degrees.

Section AV. Changes in Existing Courses

AV.1.1 Change in Course Prerequisites to be offered by the Film Studies Program

CUNYfirst Course ID	091648 (FLM 4900) and 109347 (FLM 4900H)		
FROM		TO	
Departments	Film Studies Program	Departments	n/c
Course	FLM 4900 Critical Approaches to Film	Course	n/c
Prerequisite	ENG/CMP/LTT 2800 or 2850	Prerequisite	ENG/CMP/LTT 2800 or 2850

	<p>or permission of the instructor. It is recommended that students registering for this course have taken at least one 3000- or 4000-level course from the list of electives for the Tier III minor in film. For students minoring in film, this course serves as the capstone.</p>		<p>and at least one 3000 or 4000-level course from the list of required or elective courses for the liberal arts minor in film.</p>
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	<p>Critical Approaches to Film provides students with an in-depth understanding of a specific film genre, filmmaker, national cinema, or critical issue. It is a communication-intensive course in which students engage theoretical and methodological topics through the close study of specific films. This course serves as the capstone course in the Film Studies Minor, although non-minors are also welcome. Topics vary from semester to semester; students may enroll in this course more than once if the topic is different.</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 2018

Rationale: Critical Approaches to Film is the capstone course for the liberal arts minor in film. Without a prerequisite in film, many students take this course as a 4000-level general capstone without any previous experience analyzing film, which increases the imbalance in students' class performances and decreases the course level to the detriment of the students minoring in film.

AV.1.2 Change in Course Description and Course Status to be offered by the Fine and Performing Arts Department

CUNYfirst Course ID	093066		
FROM		TO	
Departments	Fine and Performing Arts	Departments	n/c
Course	MSC 3031 Music of Latin America and the Caribbean	Course	n/c
Course Status	Inactive	Course Status	<u>Active</u>
Prerequisite	MSC 1001, MSC 1002, MSC 1003, or MSC 1005	Prerequisite	n/c
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	Exploration of the vast world of music centered in and around South America, Central America, Mexico and the Caribbean. Traces the influence of early American rhythms, forms, and culture upon those of the Latin neighbors, as well as present day Afro-American influence. Deals with the characteristic interrelatedness of music brought about as the result of natural acculturation.	Description	<u>This course explores the vast world of music centered in and around South America, Central America, Mexico, and the Caribbean. <u>It</u> traces the influence of early American rhythms, forms, and culture upon those of the Latin neighbors, as well as present day Afro-American influence. <u>It also</u> deals with the characteristic interrelatedness of music brought about as the result of natural acculturation.</u>
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 2018

Rationale: This course has been offered only twice since 1982, and was overlooked when the music major and minor were written and revised. MSC 3031 will be offered one per year with a projected enrollment of 25 students. It will serve as a “Comparative and Cultural Studies” elective within the Music and the Management of Musical Enterprises specializations of the music major (NYSED program codes 01947 and 60020) or the music minor, and as a general elective for the BA, BBA, and BS degrees.

AV.1.3 Change in Course Prerequisites to be offered by the Mathematics Department

CUNYfirst Course ID	093164		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 3006 Integral Calculus	Course	n/c
Prerequisite	A grade of 2.75 (or C+) or higher in MTH 2205, 2206, or 2207 or departmental permission.	Prerequisite	A grade of C+ or higher in MTH 2205, 2206, or 2207, or departmental permission.
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	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	Description	n/c

	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. Not open to students who have completed MTH 2610, 2630, or 3010.		
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 2018

Rationale: The description has been updated to correct a discrepancy in the grade requirement for the course prerequisite.

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

CUNYfirst Course ID	135390		
FROM		TO	

Departments	Mathematics	Departments	n/c
Course	MTH 3007 Infinite Series	Course	n/c
Prerequisite	MTH 3006 with a grade of B+ or better	Prerequisite	n/c
Hours	1	Hours	n/c
Credits	1	Credits	n/c
Description	This course concerns infinite series and various commonly used tests to determine their convergence or divergence, as well as power series expansions and Taylor and Maclaurin series representations of common functions. Students passing this course with a C-or better may proceed into MTH 3020; students passing with B+ or better may proceed into MTH 3050.	Description	This course concerns infinite series and various commonly used tests to determine their convergence or divergence, as well as power series expansions and Taylor and Maclaurin series representations of common functions. Students passing this course with a C-or better may proceed into MTH 3020; students passing with B+ or better may proceed into MTH 3050. <u>Not open to students who have completed MTH 3010, or MTH 3030.</u>
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 2018

Rationale: The course description has been updated to clarify that students may not take MTH 3007 if they have completed overlapping classes. All changes have been made to complement recent updates to the requirements for the mathematics, financial mathematics, and actuarial science majors.

AV.1.5 Change in Course Prerequisites 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	n/c
Prerequisite	A grade of C- or better in MTH 2610	Prerequisite	A grade of C- or better in MTH 2610, <u>or an AP Calculus AB score of 4 or 5</u>
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	<p>Topics to be discussed include transcendental functions, techniques of integration, improper integration, numerical integration, Taylor polynomial, sequences, infinite series, convergence tests, power series and applications.</p> <p>Not open to students who have completed MTH 2630, 3006, or 3030.</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 2018

Rationale: The description has been updated to clarify that an AP exam score of 4 or 5 on Calculus AB may be used as a prerequisite for this course. All changes are made to complement recent updates to the requirements for the mathematics and actuarial science majors.

AV.1.6 Change in Course Prerequisites and Description to be offered by the Mathematics Department

CUNYfirst Course ID	093166		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 3020 Intermediate Calculus	Course	n/c
Prerequisite	A grade of C- or better in MTH 3010	Prerequisite	A grade of C- or better in <u>MTH 3007, or MTH 3010, or an AP Calculus BC score of 4 or 5</u>
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	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.	Description	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. <u>Not open to students who have completed MTH 3030, or MTH 3050.</u>
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	General Education	<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	Component	<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 2018

Rationale: The prerequisite information has been updated to reflect additional options. The course description has been updated to clarify that students may not take MTH 3020 if they have completed overlapping classes. All changes have been made to complement recent updates to the requirements for the mathematics and actuarial science majors.

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

CUNYfirst Course ID	093168		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 3030 Analytic Geometry and Calculus II	Course	n/c
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	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. Not open	Description	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. Not open to students who have completed MTH

	to students who have completed MTH 3010 or MTH 3020.		3010, MTH 3020, or MTH 3050. <u>Not open to students who completed MTH 3007 with a grade of C- or better.</u>
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 2018

Rationale: The course description has been updated to clarify that students may not take MTH 3030 if they have completed overlapping classes. All changes have been made to complement recent updates to the requirements for the mathematics and actuarial science majors.

AV.1.8 Change in Course Prerequisites and Description 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	n/c
Prerequisite	MTH 3007 with a B+ or higher	Prerequisite	<u>MTH 3007 with B+ or higher, or MTH 3010 with B+ or higher, or an AP Calculus BC score of 4 or 5.</u>

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 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.	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 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. <u>Not open to students who have completed MTH 3020, MTH 3030, or MTH 3035.</u>
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	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"/> 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 2018

Rationale: The prerequisite information has been updated to reflect additional options. The above corrects the previous proposal by not allowing MTH 3050 to be taken if a student had completed an overlapping course.

AV.1.9 Change in Course Prerequisites and Description to be offered by the Mathematics Department

CUNYfirst Course ID	093173		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 3300 Algorithms, Computers, and Programming I	Course	n/c
Prerequisite	MTH 2610 (2010), MTH 3006, or MTH 3010; or permission of the department	Prerequisite	MTH 2610 (2010), <u>MTH 2630</u> , MTH 3006, or MTH 3010; or permission of the department.
Hours	4	Hours	n/c
Credits	3	Credits	n/c
Description	The objective of this course is to provide the basic knowledge and experience necessary to use computers effectively by developing an understanding of the interplay between the computer, its associated languages, and the structured development of algorithms. Topics to be covered include computer organization and operation, data representation, algorithm development and specification, and programming languages and techniques. These topics are developed through the study and application of a higher-level language, such as C++.	Description	The objective of this course is to provide the basic knowledge and experience necessary to use computers effectively by developing an understanding of the interplay between the computer, its associated languages, and the structured development of algorithms. Topics to be covered include computer organization and operation, data representation, algorithm development and specification, and programming languages and techniques. These topics are developed through the study and application of a higher-level language. <u>MTH 3300 is not open to students who have</u>

	Credit will not be granted for both MTH 3300 and CIS 3100.		<u>completed CIS 3100 or CIS 3120.</u>
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 2018

Rationale: The prerequisite information has been updated to include MTH 2630, a course completed by some transfer students. The course description is being changed to update the articulation between courses in the Departments of Mathematics and Information Systems and Statistics.

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

CUNYfirst Course ID	126883		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 4000 Bridge to Higher Mathematics	Course	n/c
Prerequisite	MTH 3010	Prerequisite	<u>MTH 3007, or MTH 3010, or MTH 3020, or MTH 3030, or MTH 3050</u>
Hours	4	Hours	n/c

Credits	3	Credits	n/c
Description	This class introduces some of the fundamental and unifying concepts of modern mathematics. Topics covered divide into four categories: 1) fundamental concepts of mathematics: definitions, proofs, sets, functions, elementary number theory; 2) discrete structures: graphs, counting; 3) discrete probability theory; 4) elements of analysis and topology. The underlying goal is to teach students about careful mathematics: precisely stating assertions about well-defined mathematical objects and verifying these assertions using mathematically sound proofs.	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 2018

Rationale: Students may follow several different tracks to complete the calculus requirement for the Financial Mathematics major. The prerequisites for this course have been updated to accommodate students who follow different calculus tracks that do not include Math 3010.

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

CUNYfirst Course ID	136415		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 4009 Proof-Writing for Advanced Calculus	Course	MTH 4009 Proof-Writing for Mathematical Analysis
Prerequisite	MTH 3007, or MTH 3010, or MTH 3030	Prerequisite	n/c
Hours	1	Hours	n/c
Credits	1	Credits	n/c
Description	This course is designed to prepare students who will be taking mathematics 4010 to understand, and compose for themselves, the kind of demanding proofs that occur in advanced calculus. This course may not be used in the mathematics minor, and it is not open to students who have credit for one of the following: MTH 4000, MTH 4010, MTH 4200, MTH 4210, MTH 4215, MTH 4220, MTH 4240, or MTH 4315.	Description	This course is designed to prepare students who will be taking mathematics 4010 to understand, and compose for themselves, the kind of demanding proofs that occur in advanced calculus. This course may not be used in the mathematics minor. <u>MTH 4009 is not open to students who have completed MTH 4000 or MTH 4010.</u>
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 2018

Rationale: Students who complete MTH 4200, MTH 4210, MTH 4215, MTH 4220, MTH 4240, or MTH 4315 may elect to take Math 4010 without taking Math 4009, but they will not be prohibited from taking Math 4009 if they wish to gain more experience with proof writing before enrolling in Math 4010. All changes have been made to complement recent updates to the requirements for the mathematics and actuarial science majors.

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

CUNYfirst Course ID	093186		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 4100 Linear Algebra and Matrix Methods	Course	n/c
Prerequisite	MTH 3020 or 3030 (MTH 3006 or 3010 are acceptable with departmental permission.)	Prerequisite	MTH 2630, MTH 3006, or MTH 3010
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	Topics to be included are Gauss-Jordan reduction, linear independence, linear vector spaces, linear transformations, similarity of matrices, diagonalizable matrices, characteristic values and vectors, and symmetric matrices and quadratic forms.	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 2018

Rationale: All changes have been made to complement recent updates to the requirements for the mathematics and actuarial science majors. MTH 2630, MTH 3006, or MTH 3010 are all appropriate prerequisites for MTH 4100.

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

CUNYfirst Course ID	126885		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 4115 Numerical Methods for Differential Equations in Finance	Course	n/c
Prerequisite	MTH 3020 or MTH 3030 or MTH 3050, MTH 4100	Prerequisite	MTH 3020, or MTH 3030, or MTH 3050; <u>pre/co-requisite: MTH 4100</u>
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	This course covers exact solutions of ordinary and partial differential equations, as well as numerical solutions to these differential equations using finite difference methods. The financial applications include the Black-Scholes model and corresponding formulas, as well as practical issues of computing implied volatilities for American and European options from market data.	Description	n/c

	The course will provide students with practical numerical tools for financial derivatives valuation.		
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 2018

Rationale: Students will learn the material from linear algebra in MTH 4100 that are required for this course before the related topics are encountered in MTH 4115, so MTH 4100 may serve as a co-requisite. All changes have been made to complement recent updates to the requirements for the mathematics and actuarial science majors.

AV.1.14 Change in Course Prerequisites to be offered by the Mathematics Department

CUNYfirst Course ID	093211		
FROM		TO	
Departments	Mathematics	Departments	n/c
Course	MTH 4451 Short-Term Insurance Mathematics	Course	n/c
Prerequisite	MTH 4120 and MTH 4410	Prerequisite	MTH 4120
Hours	4	Hours	n/c
Credits	4	Credits	n/c

Description	This course builds upon probability theory to introduce a variety of frequency and severity models, the steps involved in the modeling process, and procedures for carrying out these steps in solving business problems. The major topics to be studied are severity, frequency, and aggregate models and their modifications, as well as risk measures and the construction of empirical models for short-term insurance. This course is intended for actuarial science students preparing for the professional examination on the Construction and Evaluation of Actuarial Models (Exam C) given by the Casualty Actuarial Society and the Society of Actuaries.	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	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

	___ Scientific World		___ Scientific World
Effective		Effective	Fall 2018

Rationale: Math 4410 is being removed as a prerequisite because material covered in Math 4410 is not required for this course.

AV.1.15 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	090143 (ARB 1001) and 090144 (ARB 1002)		
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	ARB 1001-1002 Elementary Arabic I and II	Course	n/c
Prerequisite	none	Prerequisite	n/c
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	The elements of Arabic grammar and readings of simple passages of Arabic literature. Two terms. No credit is allowed for course ARB 1001 without 1002,	Description	<u>This is a year's introductory course that covers the elements of Arabic grammar and readings of simple passages of Arabic literature.</u> <u>These courses are not open to students with two or more years of high school Arabic and/or the NARB student group.</u>
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 2018

Rationale: The current rules have discouraged students from starting a new language if they are required from the beginning to take two courses in order to get credit for the first one. Also, under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.16 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	090524 (CHI 1001) and 090525 (CHI 1002)		
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	CHI 1001-CHI 1002 Elementary Chinese I and II	Course	n/c
Prerequisite	none	Prerequisite	n/c
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	Chinese 1001-1002 is a one year intensive course of standard speech (Mandarin dialect) for non-heritage speakers. Pronunciation and conversation are emphasized, and audio-lingual work is done. This consists of skits, rhythm drills, games, and songs. Reading and writing are taught only in romanized form. Credit for CHI 1001 will be deleted if CHI 1002 is not completed.	Description	Chinese 1001-1002 is a one year intensive course of standard speech (Mandarin dialect) for non-heritage speakers. Pronunciation and conversation are emphasized, and audio-lingual work is done. This consists of skits, rhythm drills, games, and songs. Reading and writing are taught only in romanized form. <u>These courses are not open to students with two or more years of high school Chinese and/or the NCHI student group.</u>
Requirement Designation		Requirement Designation	
Liberal Arts	[x] Yes [] No	Liberal Arts	[x] Yes [] 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 2018

Rationale: The current rules have discouraged students from starting a new language if they are required from the beginning to take two courses in order to get credit for the first one. Also, under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.17 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	091697 (FRE 1001) and 091698 (FRE 1002)		
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	FRE 1001-FRE 1002 Elementary French I and II	Course	n/c
Prerequisite	none	Prerequisite	n/c
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	This is a yearlong introductory course in conversation geared to giving	Description	This is a yearlong introductory course in conversation geared to giving the student a

	<p>the student a command of the everyday spoken language and grammar with a special concentration on the culture and mores of the French-speaking people. Students are drilled in the practical usage of the language while gaining a basic knowledge of French civilization. Self-expression is developed through the use of dialogues, skits, and audiovisual aids.</p> <p>Credit for FRE 1001 will be deleted if FRE 1002 is not completed.</p>		<p>command of the everyday spoken language and grammar with a special concentration on the culture and mores of the French-speaking people. Students are drilled in the practical usage of the language while gaining a basic knowledge of French civilization. Self-expression is developed through the use of dialogues, skits, and audiovisual aids.</p> <p><u>These courses are not open to students with two or more years of high school French and/or the NFRE student group.</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 2018

Rationale: The current rules have discouraged students from starting a new language if they are required from the beginning to take two courses in order to get credit for the first one. Also, under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language

sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.18 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	091873 (HEB 1001) and 091874 (HEB 1002)		
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	HEB 1001-HEB 1002 Elementary Hebrew I and II	Course	n/c
Prerequisite	none	Prerequisite	n/c
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	<p>The course Hebrew 1001-1002 is designed to develop the student's command of modern Hebrew. The focus of the course is on the spoken word, but reading and writing are also taught. Emphasis is put on increasing the student's aptitude to use Hebrew for business affairs. Self-expression is developed through the use of dialogues, conversations, and audio-lingual aids. Together with the development of language skills, the course provides an overview of culture.</p> <p>Credit for HEB-1001 will be deleted if HEB-1002 is not completed.</p>	Description	<p>The course Hebrew 1001-1002 is designed to develop the student's command of modern Hebrew. The focus of the course is on the spoken word, but reading and writing are also taught. Emphasis is put on increasing the student's aptitude to use Hebrew for business affairs. Self-expression is developed through the use of dialogues, conversations, and audio-lingual aids. Together with the development of language skills, the course provides an overview of culture.</p> <p><u>These courses are not open to students with two or more years of high school Hebrew and/or the NHEB student group.</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	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"/> 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 2018

Rationale: The current rules have discouraged students from starting a new language if they are required from the beginning to take two courses in order to get credit for the first one. Also, under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.19 Change in Course Description to be offered by the Modern Languages and Comparative Literature

CUNYfirst Course ID	092297 (ITL 1001) and 092298 (ITL 1002)		
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	ITL 1001-1002 Elementary Italian I and II	Course	n/c
Prerequisite	None	Prerequisite	n/c
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	This is a year's introductory course in conversation geared to giving students a command of the everyday spoken language and grammar with a special concentration on the culture and mores of the Italian-speaking people. Students are drilled in the practical usage of the language while gaining a basic knowledge of Italian civilization. Self-	Description	This is a year's introductory course in conversation geared to giving students a command of the everyday spoken language and grammar with a special concentration on the culture and mores of the Italian-speaking people. Students are drilled in the practical usage of the language while gaining a basic knowledge of Italian civilization. Self-expression is developed through the use of

	expression is developed through the use of dialogues, skits, and audiovisual aids. Credit for ITL 1001 will be deleted if ITL 1002 is not completed.		dialogues, skits, and audiovisual aids. <u>These courses are not open to students with two or more years of high school Italian and/or the NITL student group.</u>
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 2018

Rationale: The current rules have discouraged students from starting a new language if they are required from the beginning to take two courses in order to get credit for the first one. Also, under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.20 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	092330 (JPN 1001) and 092331 (JPN 1002)		
FROM		TO	

Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	JPN 1001-1002 Elementary Japanese I and II	Course	n/c
Prerequisite	none	Prerequisite	n/c
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	<p>Japanese 1001-1002 is a yearlong introductory course in conversation geared to giving students a command of the everyday spoken language and grammar with a special concentration on the culture of the Japanese-speaking people. Students are drilled in pronunciation and the practical usage of the language while developing self-expression through the use of dialogues, skits, audiovisual aids and laboratory visits.</p> <p>Credit for JPN 1001 will be deleted if JPN 1002 is not completed.</p>	Description	<p>Japanese 1001-1002 is a yearlong introductory course in conversation geared to giving students a command of the everyday spoken language and grammar with a special concentration on the culture of the Japanese-speaking people. Students are drilled in pronunciation and the practical usage of the language while developing self-expression through the use of dialogues, skits, audiovisual aids and laboratory visits.</p> <p><u>These courses are not open to students with two or more years of high school Japanese and/or the NJPN student group.</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	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

	___ Individual and Society ___ Scientific World		___ Individual and Society ___ Scientific World
Effective		Effective	Fall 2018

Rationale: The current rules have discouraged students from starting a new language if they are required from the beginning to take two courses in order to get credit for the first one. Also, under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.21 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	093844 (POR 1001) and 093845 (POR 1002)		
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	POR 1001-1002 Elementary Conversation	Course	n/c
Prerequisite	none	Prerequisite	n/c
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	A year's intensive course in conversation geared to giving the student a command of the everyday spoken language. Students will be drilled in the practical usage of the language while gaining a grounding in the fundamentals. Self-expression will be developed through the use of dialogues, skits, and audiovisual aids. No credit for POR 1001 without 1002.	Description	A year's intensive course in conversation geared to giving the student a command of the everyday spoken language. Students will be drilled in the practical usage of the language while gaining a grounding in the fundamentals. Self-expression will be developed through the use of dialogues, skits, and audiovisual aids. <u>These courses are not open to students with two or more years of high school Portuguese and/or the NPOR student group.</u>
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 2018

Rationale: The current rules have discouraged students from starting a new language if they are required from the beginning to take two courses in order to get credit for the first one. Also, under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.22 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	094431		
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	SPA 1001 Elementary Spanish I	Course	n/c
Prerequisite	none	Prerequisite	n/c
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	This one-year introductory course aims to give students a command of the written and spoken language and grammar. Emphasis is on communication skills and the cultures of Spanish-speaking	Description	This one-year introductory course aims to give students a command of the written and spoken language and grammar. Emphasis is on communication skills and the cultures of Spanish-speaking peoples.

	peoples. Self-expression is developed through the use of dialogues, skits, audiovisual aids, and Web activities. Lab work is required. Credit for SPA 1001 will be deleted without completion of SPA 1002.		Self-expression is developed through the use of dialogues, skits, audiovisual aids, and Web activities. Lab work is required. <u>This course is not open to students with two or more years of high school Spanish and/or the NSPA student group.</u>
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 2018

Rationale: The current rules have discouraged students from starting a new language if they are required from the beginning to take two courses in order to get credit for the first one. Also, under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.23 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	094432
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FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	SPA 1002 Elementary Spanish II	Course	n/c
Prerequisite	SPA 1001 or equivalent	Prerequisite	n/c
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	<p>This is the second course of one-year introductory courses that aims to give students a command of the written and spoken language and grammar. Emphasis is on communication skills and the cultures of Spanish-speaking peoples. Self-expression is developed through the use of dialogues, skits, audiovisual aids, and Web activities. Lab work is required.</p> <p>Credit for SPA 1001 will be deleted without completion of SPA 1002. Students who have taken two years or more of Spanish in high school or who speak the language may not take Spanish 1001 or 1002; they could take 2000 and 3000-level Spanish courses. Please contact the department of Modern Languages for correct placement.</p>	Description	<p>This is the second course of one-year introductory courses that aims to give students a command of the written and spoken language and grammar. Emphasis is on communication skills and the cultures of Spanish-speaking peoples. Self-expression is developed through the use of dialogues, skits, audiovisual aids, and Web activities. Lab work is required.</p> <p><u>This course is not open to students with two or more years of high school Spanish and/or the NSPA student group.</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	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"/> 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 2018

Rationale: Under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.24 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	094440		
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	SPA 3001 Intensive Intermediate Spanish I	Course	n/c
Prerequisite	SPA 2009 or equivalent. Immediately following SPA 1002: Departmental permission only.	Prerequisite	n/c
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	This intensive intermediate-level course in Spanish aims at building students' proficiency in all four language skills (reading, writing, listening, and speaking) and broadening their knowledge of the Spanish-speaking world. In addition to providing a thorough review of the grammar needed for both oral and written	Description	This intensive intermediate-level course in Spanish aims at building students' proficiency in all four language skills (reading, writing, listening, and speaking) and broadening their knowledge of the Spanish-speaking world. In addition to providing a thorough review of the grammar needed for both oral and written communication, the course emphasizes the active use of the language through

	<p>communication, the course emphasizes the active use of the language through conversation, role-playing, debates, discussion of short stories, and Web-based activities. Lab work is required.</p> <p>Credit for SPA 3001 will be deleted without completion of SPA 3002.</p>		<p>conversation, role-playing, debates, discussion of short stories, and Web-based activities. Lab work is required.</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 2018

Rationale: Under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.25 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course	094441
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ID			
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	SPA 3002 Intensive Intermediate Spanish II	Course	n/c
Prerequisite	SPA 3001 of equivalent or department permission	Prerequisite	
Hours	4	Hours	n/c
Credits	4	Credits	n/c
Description	This course is a continuation of SPA 3001. Credit for SPA 3001 will be deleted without completion of SPA 3002.	Description	This course is a continuation of SPA 3001.
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 2018

Rationale: Under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.26 Change in Course Description to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	094443 (SPA 3005) and 094444 (SPA 3006)		
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	SPA 3005-3006 Spanish for Heritage Speakers I and II	Course	n/c
Prerequisite	For heritage speakers (of Spanish and Spanish-American background) who have not had more than two years of high school Spanish or by departmental permission.	Prerequisite	n/c
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	<p>This one-year intensive intermediate-level course is designed specifically for bilingual students whose home and/or community language is Spanish but who have little or no formal study of the language. The focus is on oral communication, reading development, orthography, lexical expansion, formal grammar, and facility in writing and composition.</p> <p>No credit is given for SPA 3006 without completion of SPA 3005.</p>	Description	<p>This one-year intensive intermediate-level course is designed specifically for bilingual students whose home and/or community language is Spanish but who have little or no formal study of the language. The focus is on oral communication, reading development, orthography, lexical expansion, formal grammar, and facility in writing and composition.</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	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"/> 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 2018

Rationale: Under CUNY Pathways rules, all credit bearing courses must transfer between CUNY campuses, meaning this transfer student population cannot be forced to enroll in the second semester of a language sequence. Non-transfer students are, therefore, put at a disadvantage. The non-transfer students frequently petition the department for a waiver and it is regularly given. The proposed change would regularize what is already being done on an ad hoc basis.

AV.1.27 Change in Course Title and Prerequisites to be offered by the Modern Languages and Comparative Literature Department

CUNYfirst Course ID	094454		
FROM		TO	
Departments	Modern Languages and Comparative Literature	Departments	n/c
Course	SPA 4050 Introduction to Literary Theory	Course	SPA 4050 Introduction to Hispanic Literature
Prerequisite	SPA 3002 or departmental permission	Prerequisite	SPA 3002 or SPA 3006 or departmental permission.
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	This course examines the elements of style, critical approaches to the major literary genres, and the main literary movements of Hispanic literature.	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 2018

Rationale: SPA 4050 is one of the required courses to complete the Spanish major (NYSED program codes 01950 and 60027). The present title, Introduction to Literary Theory, does not reflect the course's focus on Hispanic Literature or the contents and methodology used in the course, which are not limited to the study of literary theory. SPA 3006 is also an appropriate prerequisite for the course.

AV.1.28 Change in Course Description to be offered by the Natural Sciences Department

CUNYfirst Course ID	093716 (PHY 2003) and 093717 (PHY 2003H)		
FROM		TO	
Departments	Natural Sciences	Departments	n/c
Course	PHY 2003 General Physics I	Course	n/c
Prerequisite	MTH 2003 and departmental permission.	Prerequisite	n/c
Hours	3 Lecture, 1 Recitation, 2 Laboratory	Hours	n/c
Credits	4	Credits	n/c
Description	This course is a quantitative study of the principles and techniques of physics. It is the first half of a one-year survey of physics. The following topics are studied: equilibrium of a rigid body, planar motion of bodies, Newton's laws, work and energy, conservation principles, elasticity and	Description	This course is a quantitative study of the principles and techniques of physics. It is the first half of a one-year survey of physics. The following topics are studied: equilibrium of a rigid body, planar motion of bodies, Newton's laws, work and energy, conservation principles, elasticity and periodic motion, fluid statics and

	<p>periodic motion, fluid statics and dynamics, temperature, heat thermodynamics, and mechanical waves. This course is designed for students with an interest in the natural sciences, computers, mathematics, or statistics.</p> <p>This course is designed for students with an interest in the natural sciences, computers, mathematics, or statistics. (Not open to students who have taken PHY 2001 and PHY 2002L.)</p>		<p>dynamics, temperature, heat thermodynamics, and mechanical waves. This course is designed for students with an interest in the natural sciences, computers, mathematics, or statistics.</p> <p>(Not open to students who have <u>completed</u> PHY 2001 and PHY 2002L, <u>PHY 3004</u>, or <u>PHY 3010</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 type="checkbox"/> Not Applicable <input checked="" 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 checked="" type="checkbox"/> Scientific World	General Education Component	<input type="checkbox"/> Not Applicable <input checked="" 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 checked="" type="checkbox"/> Scientific World
Effective		Effective	Fall 2018

Rationale: Students who have completed PHY 3010 or PHY 3004 should not be eligible to take PHY 2003, as they would have completed the same material using Calculus.

AV.1.29 Change in Course Description to be offered by the Natural Sciences Department

CUNYfirst Course ID	093716 (PHY 3001) and 099722 (PHY 3001H)		
FROM		TO	
Departments	Natural Sciences	Departments	n/c
Course	PHY 3001 General Physics II	Course	n/c
Prerequisite	PHY 2003	Prerequisite	n/c
Hours	3 Lecture, 1 Recitation, 2 Laboratory	Hours	n/c
Credits	4	Credits	n/c
Description	This course is a continuation of PHY 2003. The following topics are studied: special relativity, electricity and magnetism, geometric and physical optics, discovery of electron, photoelectric effect, atomic physics, quantum effects, nuclear physics, fundamental particles, and applications to biological systems and medical instrumentation. (Not open to students who have taken PHY 3006.)	Description	This course is a continuation of PHY 2003. The following topics are studied: special relativity, electricity and magnetism, geometric and physical optics, discovery of electron, photoelectric effect, atomic physics, quantum effects, nuclear physics, fundamental particles, and applications to biological systems and medical instrumentation. (Not open to students who have <u>completed</u> PHY 3006 <u>or</u> PHY 3020.)
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	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

	___ Scientific World		___ Scientific World
Effective		Effective	Fall 2018

Rationale: Students who have completed PHY 3020 should not be eligible to take PHY 3001, as they would have completed the same material using Calculus.

AV.1.30 Change in Course Prerequisites and Description to be offered by the Natural Sciences Department

CUNYfirst Course ID	093724 (PHY 3010) and 093725 (PHY 3010H)		
FROM		TO	
Departments	Natural Sciences	Departments	n/c
Course	PHY 3010 Quantitative Physics I	Course	n/c
Prerequisite	MTH 2610 and departmental permission	Prerequisite	MTH 2610
Hours	4 Lecture, 2 Laboratory	Hours	n/c
Credits	5	Credits	n/c
Description	This course is a calculus-based study of the basic principles of quantitative physics. Topics include classical mechanics, gravitation, heat, sound, and relativity. A weekly laboratory will parallel the lectures. Not open to students who have taken PHY 2003.	Description	This course is a calculus-based study of the basic principles of quantitative physics. Topics include classical mechanics, gravitation, heat, sound, and relativity. A weekly laboratory will parallel the lectures. Not open to students who have <u>completed</u> PHY 2003 <u>or</u> PHY 3004.
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 2018

Rationale: Departmental permission should not be required if the prerequisite is satisfied. PHY 3004 covers the same lecture material but with a computer laboratory component.

AV.1.31 Change in Course Prerequisite and Description to be offered by the Natural Sciences Department

CUNYfirst Course ID	093726		
FROM		TO	
Departments	Natural Sciences	Departments	n/c
Course	PHY 3020	Course	n/c
Prerequisite	PHY 3010 and departmental permission.	Prerequisite	PHY 3010 <u>or</u> PHY 3004
Hours	4 Lecture, 2 Laboratory	Hours	n/c
Credits	5	Credits	n/c
Description	<p>This course is a calculus-based study of quantitative physics. Topics include electricity and magnetism (leading up to Maxwell's equations), optics, and the elements of atomic physics. A weekly laboratory will parallel the lectures.</p> <p>Not open to students who have taken PHY 3001.</p>	Description	<p>This course is a calculus-based study of quantitative physics. <u>It is a continuation of PHY 3010 or PHY 3004.</u> Topics include electricity and magnetism (leading up to Maxwell's equations), optics, and the elements of atomic physics. A weekly laboratory will parallel the lectures.</p> <p>Not open to students who have taken PHY 3001.</p>
Requirement Designation		Requirement Designation	
Liberal Arts	[x] Yes [] No	Liberal Arts	[x] Yes [] 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	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"/> 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 2018

Rationale: PHY 3010 is normally the prerequisite to PHY 3020. A new course, PHY 3004, covers the same lecture material as PHY 3010, but with a computer lab. It should be considered an equally valid, alternate prerequisite for PHY 3020. Departmental permission should not be required if the prerequisite is satisfied.

AV.1.32 Change in Course Prerequisite to be offered by the Natural Sciences Department

CUNYfirst Course ID	109065		
FROM		TO	
Departments	Natural Sciences	Departments	n/c
Course	PHY 4130 Modern Physics	Course	n/c
Prerequisite	PHY 3010 and PHY 3020, or PHY 2003 and PHY 3001 with permission of the instructor. Departmental permission is required.	Prerequisite	PHY 3010 and PHY 3020, or PHY 2003 and PHY 3001 with permission of the instructor.
Hours	6	Hours	n/c
Credits	4	Credits	n/c
Description	This class explores the central revolutionary ideas of special relativity and quantum mechanics. After learning the foundations and formulations of these ideas, students will be exposed to their applications in atomic, condensed-matter, nuclear, and particle physics. The success of many of these applications will be demonstrated by laboratory experiments. Students give an oral presentation and	Description	n/c

	submit a written essay on a particular topic in relativity or quantum mechanics. This course may serve as the capstone for the Tier III minor in Natural Sciences.		
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 2018

Rationale: If the student has completed the required prerequisite courses (or their equivalent), then departmental permission should not be required, as this has served only to discourage students from enrolling in this course. This course is an important capstone course in the Physics Minor at Baruch College.

AV.1.33 Change in Course Prerequisite to be offered by the Natural Sciences Department

CUNYfirst Course ID	109066		
FROM		TO	
Departments	Natural Sciences	Departments	n/c
Course	PHY 4201 Astrophysics	Course	n/c
Prerequisite	PHY 3010 and PHY 3020, or PHY 2003 and PHY 3001	Prerequisite	PHY 3010 and PHY 3020, or PHY 2003 and PHY 3001 with

	with permission of the instructor. Physics 4130, Introduction to Modern Physics, is recommended. Departmental permission is required.		permission of the instructor. Physics 4130, Introduction to Modern Physics, is recommended.
Hours	6	Hours	n/c
Credits	4	Credits	n/c
Description	<p>This class explores the physics behind planetary science, stellar processes, galactic dynamics and modern cosmology, as well as the techniques for making astronomical observations. The central ideas are demonstrated by both laboratory experiments and astronomical observations. Students give an oral presentation and submit a written essay on a particular topic in the subject area.</p> <p>This course may serve as the capstone for the Tier III minor In Natural Sciences.</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	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"/> Individual and Society
	<input type="checkbox"/> Scientific World		<input type="checkbox"/> Scientific World
Effective		Effective	Fall 2018

Rationale: If the student has completed the required prerequisite courses (or their equivalent), then departmental permission should not be required, as this has only served to discourage students from enrolling in this course. This course is an important Capstone course in the Physics Minor at Baruch College.

AV.1.34 Change in Course Number, Title, and Prerequisites to be offered by the Political Science Department

CUNYfirst Course ID	093767		
FROM		TO	
Departments	Political Science	Departments	n/c
Course	POL 2324 Urban Government	Course	POL <u>3321</u> Urban Politics
Prerequisite	ENG 2100 or equivalent	Prerequisite	ENG 2100 or equivalent, <u>and one of the following: POL 1101; POL 2220; POL 2353; PAF 1250; or departmental permission.</u>
Hours	3	Hours	n/c
Credits	3	Credits	n/c
Description	Survey of important approaches to the study of urban political systems. The course concentrates on the nature of cities, their contemporary problems, and the political structures and processes used to solve these problems.	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	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"/> 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 2018

Rationale: Currently, as a 2000-level course, POL 2321 can be used by students only as a general elective or to satisfy political science major requirements. At the 3000-level, the course will have broader utility as it could also be used to satisfy political science minor requirements. The title change to Urban Politics better reflects the content of the course.

AV.1.35 Change in Course Prerequisite to be offered by the Psychology Department

CUNYfirst Course ID	12580		
FROM		TO	
Departments	Psychology	Departments	n/c
Course	PSY 3001 Research Methods in Psychology	Course	n/c
Prerequisite	PSY 1001; STA 2000 or 2100; and departmental permission. BBA students must take STA 2000 to meet Zicklin School core curriculum requirements. BA students must take STA 2100.	Prerequisite	PSY 1001 <u>and</u> PSY 2100 <u>or</u> STA 2100 or STA 2000. BBA students must take STA 2000 to meet Zicklin School core curriculum requirements. BA students must take <u>PSY 2100</u> <u>or</u> STA 2100.
Hours	6	Hours	n/c
Credits	4	Credits	n/c
Description	This course will familiarize students with major methodological approaches to the study of human behavior. Topics will include qualitative research, survey design, construct and experimental validity, experimentation, and research ethics. These topics will be introduced by way of several student-designed projects conducted over the	Description	n/c

	course of the semester. (This course is not open to students who have completed PSY 5020). This is a required course for students who intend to complete a major in Psychology		
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 2018

Rationale: The prerequisite is being changed to reflect the new statistics course, PSY 2100.

Section AVI. Courses Withdrawn

AVI.1.1

PSY 3075 Psychology and the Internet

Rationale: This course has not been offered in several years. At some point, faculty in the Psychology department may submit a revised version of the course, reframing its content and focus.

PART A: ACADEMIC MATTERS

The following recommendations of the Curriculum Committee were approved at the Marx School of Public and International Affairs Faculty Meeting on December 5, 2017. They will be effective for the Fall 2018 semester, pending approval of the Board of Trustees.

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 2018

From	To
Course Description Crs	Course Description Crs
Requirements for the Specialization in Nonprofit Management in the MPA program	
Core Courses of the MPA (24-27 credits)	Requirements for the Specialization in Nonprofit Management in the MPA program
Free Electives of the MPA (6 credits)	Core Courses of the MPA (24-27 credits)
Two free elective courses of 6 choice	Free Electives of the MPA (6 credits)
Nonprofit Management Required Courses (6 credits)	Two free elective courses of choice 6
PAF 9151 Administration of the Nonprofit Sector and Voluntary Agencies 3	Nonprofit Management Required Courses (6 credits)
PAF 9153 Budgeting and Finance for Nonprofits 3	PAF Administration of the Nonprofit Sector and Voluntary Agencies 3
Nonprofit Management Elective Courses (6 credits)	PAF Budgeting and Finance for Nonprofits 3
PAF 9109 Government Contracting 3	Nonprofit Management Elective Courses (6 credits)
PAF 9110 Ethics and Public Decision-Making 3	PAF Government Contracting 3
PAF 9126 Human Services Administration 3	PAF Ethics and Public Decision-Making 3
PAF 9136 Urban Economic Development 3	PAF Human Services Administration 3
PAF 9139 Communication Strategy 3	PAF Urban Economic Development 3
PAF 9141 Community Development: History, Present, and Future 3	PAF Communication Strategy 3
PAF 9142 Housing Policy 3	PAF Community Development: History, Present, and Future 3
PAF 9143 Greening and Growing Cities: Sustainability and Public Policy Choices 3	PAF Housing Policy 3
PAF 9150 Introduction to the Nonprofit Sector 3	
PAF 9152 Fund Raising and Grants Administration in Nonprofit 3	

in a number of other MSPIA courses. If there is particular interest in the future in focusing on the issues, the course can be taught as a Special Topic.

Rationale for addition of three new courses *PAF 9184 International Institutions and Global Governance*; *PAF 9410 Global Economic Governance*; *PAF 9430 Diaspora, Migration and Transnational Life in the Western Hemisphere and Beyond*. These are three course from the new Master in International Affairs program that have substantial nonprofit content.

Section AVI: Courses Withdrawn

AVI:1. The following is a course deletion in the MPA Program in the Marxe School of Public and International Affairs.

PAF 9158 Religion, Nonprofits, Politics, and Policy

Rationale: The topic of religion and its role in policy making and institution building in the US and around the world is covered in a number of other MSPIA courses. If there is particular interest in the future in focusing on the issues, the course can be taught as a Special Topic.

CHANCELLOR'S UNIVERSITY REPORT ADDENDUM JUNE 2017

PART A: ACADEMIC MATTERS

BARUCH COLLEGE

June 2016 Chancellor's University Report	SECTION AIII. Changes in Degree Program. Item AIII.10.4b: The following revisions are proposed for the BBA in Real Estate in the Zicklin School of Business. Add to rationale that [OLD tracks students will be allowed to complete their original requirements].
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