

26 September 2018

TO: Members of the Hunter College Senate

FM: Senate Office

RE: **Approved Curriculum Changes**

Substantive items listed below were previously mailed to Senators and Department Chairs. Thus, an opportunity for challenge and/or correction was provided. In accordance with Senate resolution the proposals for substantive changes are not attached, but are available in the Senate Office for inspection.

UNDERGRADUATE ROUTINE CHANGES

		Page #:
UR-2197A	ENGLISH Change in courses: ENGL 33800 and 39500	2-4
UR-2199A	MATHEMATICS & STATISTICS Change in courses: MATH 10400, 11100, 15500, 16000, STAT 11300, 21200, 21300, 21400, 29500, 35100	5-15

Department of English
Hunter College, CUNY

Routine Change in Course Number

Instructions: Please complete the entire “FROM” column. Only complete the proposed changes in the “TO” column

FROM (strike through the changes)		TO (<u>underline</u> changes)	
Name	Survey of British Literature I: Early texts to the Eighteenth Century	Name	Survey of British Literature I: Early Texts to the Eighteenth Century
Course & Prefix	ENGL 33800	Course & Prefix	ENGL <u>30400</u>
Pre and/or Co Requisites (specify which are pre, co, or both)	ENGL 22000	Pre and/or Co Requisites (specify which are pre, co, or both)	ENGL 22000
Hours	3	Hours	3
Credits	3	Credits	3
Description	A survey of British literature from its earliest manifestations to the early eighteenth century, encompassing a range of authors and genres in their cultural, social, and historical contexts.	Description	A survey of British literature from its earliest manifestations to the early eighteenth century, encompassing a range of authors and genres in their cultural, social, and historical contexts. <u>Required for all English majors.</u>
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale	A-F	Grading Scale	A-F
Core Requirement	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	Core Requirement (<i>Note:</i> If course is being considered for the Common Core, please see Appendix B for CUNY Common Core Submission Forms. The form must be submitted along with the proposal and syllabus.)	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term	Fall 2019

2. Rationale:

The course is required of all English majors. It is intended to be taken in students' first or second semester of study and serves as a foundation for further study in British literature. The current number can be misleading to students, suggesting a more advanced course. Indeed, its number is higher than our Medieval literature courses. Re-numbering it to 30400 will make the course's level and place in the major more visible and explicit. While the Department considered re-numbering to the 200 level, the course content and goals are more aligned with Hunter's 300-level description, and we do not intend any substantive changes to the course requirements.

3. Consultation Statement:

Is the proposed change likely to affect other Departments or Programs?

NO YES – If yes, list department/program: _____

Has the Department/Program been consulted? NO YES N/A

Is this course cross-listed? If so, please list all courses.

Does this affect the Library? NO YES

Have you consulted the subject liaison? NO YES N/A

For new courses or programs, please consult.

DEPARTMENT of English
Hunter College, CUNY

Routine Change in Course Number and Title

Instructions: Please complete the entire “FROM” column. Only complete the proposed changes in the “TO” column

FROM (strike through the changes)		TO (<u>underline</u> changes)	
Name	Survey of American Literature: Origins to the Civil War	Name	Survey of American Literature: <u>From</u> Origins to the Civil War
Course & Prefix	ENGL 39500	Course & Prefix	ENGL <u>30700</u>
Pre and/or Co Requisites (specify which are pre, co, or both)	ENGL 22000	Pre and/or Co Requisites (specify which are pre, co, or both)	ENGL 22000
Hours	3	Hours	3
Credits	3	Credits	3
Description	An introduction to American literature up to the Civil War, surveying material in a range of genres and periods and encompassing a variety of interpretive approaches.	Description	An introduction to American literature up to the Civil War, surveying material in a range of genres and periods and encompassing a variety of interpretive approaches. <u>Required of all English majors.</u>
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale	A-F	Grading Scale	A-F
Core Requirement	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	Core Requirement	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term	Fall 2019

2. Rationale:

ENGL 39500 is currently a required course for the Literature, Language, and Criticism concentration and one of three choices to fulfill the American literature survey requirement for the other four concentrations. It is intended to be taken in students' first or second semester of study in the major, and to serve as a foundation for further study in American literature. Beginning in Fall 2019, the course will be required of all majors. The current number can be misleading to students, suggesting a more advanced course. Re-numbering it 30700 will make the course's level and its place in the major more visible and explicit. While the Department considered re-numbering to the 200 level, the course content and goals are more aligned with Hunter's 300-level description, and we do not intend any

substantive changes to the course requirements. The addition of the word “from” in the title corrects the ambiguity of the current title, which can be taken to mean that the course focuses on the origins of the Civil War, which is not accurate.

3. Consultation Statement:

Is the proposed change likely to affect other Departments or Programs?

NO YES – If yes, list department/program: _____

Has the Department/Program been consulted? NO YES N/A

Is this course cross-listed? If so, please list all courses.

Does this affect the Library? NO YES

Have you consulted the subject liaison? NO YES N/A

For new courses or programs, please consult.

MATHEMATICS & STATISTICS DEPARTMENT
Hunter College, CUNY

Routine Change in Course pre-requisites

FROM (strike through what will be changed)		TO (<u>underline</u> the changes)	
Name	Mathematics for Elementary Education 1	Name	Mathematics for Elementary Education 1
Prefix & Five Digit Course Number (XXXXX)	MATH 10400 (STEM)	Prefix & Five Digit Course Number (XXXXX)	MATH 10400 (STEM)
Pre and/or Co Requisites (specify which are pre, co, or both)	Pre-req: grade of C or better in MATH 10100 or appropriate score on the placement exam	Pre and/or Co Requisites (specify which are pre, co, or both)	Pre-req: grade of C or better in MATH 10100 <u>or</u> <u>MATH 101EN</u> or appropriate score on the placement exam
Hours	3	Hours	3
Credits	3	Credits	3
Description	Fundamental and relevant mathematics as recommended by the NCTM for prospective elementary school teachers, including problem solving, sets, logic, numeration, computation, integers and number theory. Required of students planning to teach in elementary schools. Not open to other students.	Description	Fundamental and relevant mathematics as recommended by the NCTM for prospective elementary school teachers, including problem solving, sets, logic, numeration, computation, integers and number theory. Required of students planning to teach in elementary schools. Not open to other students.
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F	Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F
Core Requirement	<input type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input checked="" type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	Core Requirement (Note: If course is being considered for the Common Core, please see Appendix B for CUNY Common Core Submission Forms. The form must be submitted along with the proposal and syllabus.)	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input checked="" type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term Note: Most proposals take 2-3 semesters to be available for student to register	Spring 2019

2. Rationale:

The Mathematics and Statistics department created MATH 101EN as an enhanced version of MATH 10100, i.e MATH 10100 with an extra hour of instruction. Since these are the same class, both should be listed as pre-requisites for this course.

3. Consultation Statement:

a) Is the proposed change likely to affect other Departments or Programs?

NO YES – If yes, list department/program:

Has the Department/Program been consulted? NO YES N/A

b) Is this course cross-listed? If so, please list all courses affected.

c) Does this affect the Library? NO YES

Have you consulted the subject liaison? NO YES N/A

For new courses or programs, please consult.

MATHEMATICS & STATISTICS DEPARTMENT
Hunter College, CUNY

Routine Change in Course pre-requisites

FROM (strike through what will be changed)		TO (<u>underline</u> the changes)	
Name	Matrices, Vectors and Linear Programming	Name	Matrices, Vectors and Linear Programming
Prefix & Five Digit Course Number (XXXXX)	MATH 11100	Prefix & Five Digit Course Number (XXXXX)	MATH 11100
Pre and/or Co Requisites (specify which are pre, co, or both)	Pre-req: MATH 10100 or appropriate score on the placement exam	Pre and/or Co Requisites (specify which are pre, co, or both)	Pre-req: MATH 10100 <u>or</u> MATH 101EN or appropriate score on the placement exam
Hours	3	Hours	3
Credits	3	Credits	3
Description	Not open to students who have completed MATH 16000 or 26000. Recommended for accounting students; not recommended for students majoring in mathematics or statistics. Introduction to matrices and vectors, systems of linear equations and linear programming with applications.	Description	Not open to students who have completed MATH 16000 or 26000. Recommended for accounting students; not recommended for students majoring in mathematics or statistics. Introduction to matrices and vectors, systems of linear equations and linear programming with applications.
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F	Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F
Core Requirement	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	Core Requirement (Note: If course is being considered for the Common Core, please see Appendix B for CUNY Common Core Submission Forms. The form must be submitted along with the proposal and syllabus.) <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	
		Effective Term Note: Most proposals take 2-3 semesters to be available for student to register	Spring 2019

2. Rationale:

The Mathematics and Statistics department created MATH 101EN as an enhanced version of MATH 10100, i.e MATH 10100 with an extra hour of instruction. Since these are the same class, both should be listed as pre-requisites for this course.

3. Consultation Statement:

a) Is the proposed change likely to affect other Departments or Programs?

NO YES – If yes, list department/program:

Has the Department/Program been consulted? NO YES N/A

b) Is this course cross-listed? If so, please list all courses affected.

c) Does this affect the Library? NO YES

Have you consulted the subject liaison? NO YES N/A

For new courses or programs, please consult.

MATHEMATICS & STATISTICS DEPARTMENT Hunter College, CUNY

Routine Change in Course title

FROM (strike through what will be changed)		TO (<u>underline</u> the changes)	
Name	Calculus with Analytic Geometry 2	Name	Calculus 2
Prefix & Five Digit Course Number (XXXXX)	MATH 15500	Prefix & Five Digit Course Number (XXXXX)	MATH 15500
Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: grade of C or better in MATH 15000</i>	Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: grade of C or better in MATH 15000</i>
Hours	4	Hours	4
Credits	4	Credits	4
Description	Differentiation and integration of transcendental functions, integration techniques, infinite sequences and series, improper integrals, polar coordinates.	Description	Differentiation and integration of transcendental functions, integration techniques, infinite sequences and series, improper integrals, polar coordinates.
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F	Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F
Core Requirement	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input checked="" type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	Core Requirement (Note: If course is being considered for the Common Core, please see Appendix B for CUNY Common Core Submission Forms. The form must be submitted along with the proposal and syllabus.)	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input checked="" type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term Note: Most proposals take 2-3 semesters to be	FALL 2019

		available for student to register	
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2. Rationale:

Calculus is no longer taught with Analytic Geometry, so it does not belong in the title.

3. Consultation Statement:

a) Is the proposed change likely to affect other Departments or Programs?

NO YES – If yes, list department/program:

Has the Department/Program been consulted? NO YES N/A

b) Is this course cross-listed? If so, please list all courses affected.

c) Does this affect the Library? NO YES

Have you consulted the subject liaison? NO YES N/A

For new courses or programs, please consult.

MATHEMATICS & STATISTICS DEPARTMENT
Hunter College, CUNY

Routine Change in Prerequisite

FROM (strike through what will be changed)		TO (<u>underline</u> the changes)	
Name	Matrix Algebra	Name	Matrix Algebra
Prefix & Five Digit Course Number (XXXXX)	MATH 16000	Prefix & Five Digit Course Number (XXXXX)	<u>MATH 16000</u>
Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: MATH 12500 or appropriate score on placement exam</i>	Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: <u>MATH 12400</u> or <u>MATH 12500</u> or <u>MATH 12550</u> or appropriate score on placement exam</i>
Hours	3	Hours	3
Credits	3	Credits	3
Description	Systems of linear equations, matrices, determinants, introduction to vector spaces and linear transformations, applications.	Description	Systems of linear equations, matrices, determinants, introduction to vector spaces and linear transformations, applications.
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F	Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F
Core Requirement	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	Core Requirement (<u>Note</u> : If course is being considered for the Common Core, please see Appendix B for CUNY Common Core Submission Forms. The form must be submitted along with the proposal and syllabus.)	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term Note: Most	FALL 2019

		proposals take 2-3 semesters to be available for student to register	
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2. **Rationale:** This is a routine addition of similar but alternative prerequisite coursework newly offered by the Department of Mathematics & Statistics.

3. **Consultation Statement:**

a) Is the proposed change likely to affect other Departments or Programs?

NO YES – If yes, list department/program:

Has the Department/Program been consulted? NO YES N/A

b) Is this course cross-listed? If so, please list all courses affected.

c) Does this affect the Library? NO YES

Have you consulted the subject liaison? NO YES N/A

For new courses or programs, please consult.

MATHEMATICS & STATISTICS DEPARTMENT
Hunter College, CUNY

Routine Change in Course pre-requisites

FROM (strike through what will be changed)		TO (<u>underline</u> the changes)	
Name	Elementary Probability and Statistics	Name	Elementary Probability and Statistics
Prefix & Five Digit Course Number (XXXXX)	STAT 11300	Prefix & Five Digit Course Number (XXXXX)	STAT 11300
Pre and/or Co Requisites (specify which are pre, co, or both)	Pre-req: grade of C or better in MATH 10100 or appropriate score on the placement exam	Pre and/or Co Requisites (specify which are pre, co, or both)	Pre-req: grade of C or better in MATH 10100 <u>or</u> <u>MATH 101EN</u> or appropriate score on the placement exam
Hours	3	Hours	3
Credits	3	Credits	3
Description	Not open to students who have completed STAT 21300 (STEM) or PSYCH 24800. Not credited for majors in statistics or mathematics unless minor is elementary education. An introduction to applied statistics and statistical computing. Hands-on data analysis. Graphical inference. The five number summary, box plots, scatterplots, normal probability plots. Elementary probability. Statistical estimation and hypothesis testing. Linear regression. Students are expected to analyze real data sets and write reports. Students who have taken calculus or place into calculus by the placement exam should take STAT 21300 instead of STAT 11300.	Description	Not open to students who have completed STAT 21300 (STEM) or PSYCH 24800. Not credited for majors in statistics or mathematics unless minor is elementary education. An introduction to applied statistics and statistical computing. Hands-on data analysis. Graphical inference. The five number summary, box plots, scatterplots, normal probability plots. Elementary probability. Statistical estimation and hypothesis testing. Linear regression. Students are expected to analyze real data sets and write reports. Students who have taken calculus or place into calculus by the placement exam should take STAT 21300 instead of STAT 11300.
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F	Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F
Core Requirement	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input checked="" type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression	Core Requirement (Note: If course is being considered for the Common Core, please see Appendix B for CUNY Common	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input checked="" type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression

	<input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	Core Submission Forms. The form must be submitted along with the proposal and syllabus.)	<input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term Note: Most proposals take 2-3 semesters to be available for student to register	Spring 2019

2. Rationale:

The Mathematics and Statistics department created MATH 101EN as an enhanced version of MATH 10100, i.e MATH 10100 with an extra hour of instruction. Since these are the same class, both should be listed as pre-requisites for this course.

3. Consultation Statement:

a) Is the proposed change likely to affect other Departments or Programs?

NO YES – If yes, list department/program:

Has the Department/Program been consulted? NO YES N/A

b) Is this course cross-listed? If so, please list all courses affected.

c) Does this affect the Library? NO YES

Have you consulted the subject liaison? NO YES N/A

For new courses or programs, please consult.

MATHEMATICS & STATISTICS DEPARTMENT
Hunter College, CUNY

Routine Change in Prerequisite

FROM (strickthrough what will be changed)		TO (<u>underline</u> the changes)	
Name	Discrete Probability	Name	Discrete Probability
Prefix & Five Digit Course Number (XXXXX)	STAT 21200	Prefix & Five Digit Course Number (XXXXX)	STAT 21200
Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: MATH 12500 or STAT 11300 or appropriate score on placement exam.</i>	Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: <u>MATH 12400</u> or MATH 12500 or or <u>MATH 12550</u>, or STAT 11300 or appropriate score on placement exam</i>
Hours	3	Hours	3
Credits	3	Credits	3
Description	Combinations, permutations, discrete probability. Characteristics of probability distributions. Model building. Additional topics like sampling, random walks or game theory will be introduced from time to time.	Description	Combinations, permutations, discrete probability. Characteristics of probability distributions. Model building. Additional topics like sampling, random walks or game theory will be introduced from time to time.
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F	Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F
Core	<input type="checkbox"/> Not Applicable	Core	<input type="checkbox"/> Not Applicable

Requirement	<input checked="" type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input checked="" type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	Requirement (Note: If course is being considered for the Common Core, please see Appendix B for CUNY Common Core Submission Forms. The form must be submitted along with the proposal and syllabus.)	<input checked="" type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input checked="" type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term Note: Most proposals take 2-3 semesters to be available for student to register	FALL 2019

2. **Rationale:** This is a routine addition of similar but alternative prerequisite coursework newly offered by the Department of Mathematics & Statistics..

3. **Consultation Statement:**

- a) Is the proposed change likely to affect other Departments or Programs?
 NO YES – If yes, list department/program:
 Has the Department/Program been consulted? NO YES N/A
- b) Is this course cross-listed? If so, please list all courses affected.
- c) Does this affect the Library? NO YES
 Have you consulted the subject liaison? NO YES N/A
 For new courses or programs, please consult.

MATHEMATICS & STATISTICS DEPARTMENT
Hunter College, CUNY

Routine Change in Prerequisite

FROM (strickthrough what will be changed)		TO (<u>underline</u> the changes)	
Name	Introduction to Applied Statistics	Name	Introduction to Applied Statistics
Prefix & Five Digit Course Number (XXXXX)	STAT 21300	Prefix & Five Digit Course Number (XXXXX)	STAT 21300
Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: MATH 12500 or appropriate score on placement exam.</i>	Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: <u>MATH 12400</u> or <u>MATH 12500</u> or <u>MATH 12550</u>, or appropriate score on placement exam</i>
Hours	3	Hours	3
Credits	3	Credits	3
Description	Sampling, estimation, tests of hypotheses, including one-and two-sample tests, two- and three-way tables for nominal and ordinal data, linear regression, analysis of variance through two-way with interaction, appropriate statistical software.	Description	Sampling, estimation, tests of hypotheses, including one-and two-sample tests, two- and three-way tables for nominal and ordinal data, linear regression, analysis of variance through two-way with interaction, appropriate statistical software.
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F	Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F

Core Requirement	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input checked="" type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	Core Requirement	<input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input checked="" type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term Note: Most proposals take 2-3 semesters to be available for student to register	FALL 2019

2. **Rationale:** This is a routine addition of similar but alternative prerequisite coursework newly offered by the Department of Mathematics & Statistics..

3. **Consultation Statement:**

a) Is the proposed change likely to affect other Departments or Programs?

NO YES – If yes, list department/program:

Has the Department/Program been consulted? NO YES N/A

b) Is this course cross-listed? If so, please list all courses affected.

c) Does this affect the Library? NO YES

Have you consulted the subject liaison? NO YES N/A

For new courses or programs, please consult.

MATHEMATICS & STATISTICS DEPARTMENT
Hunter College, CUNY

Routine Change in Prerequisite

FROM (strike through what will be changed)		TO (<u>underline</u> the changes)	
Name	Data Analysis Using Statistical Software	Name	Data Analysis Using Statistical Software
Prefix & Five Digit Course Number (XXXXX)	STAT 21400	Prefix & Five Digit Course Number (XXXXX)	STAT 21400
Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: STAT 21300 or MATH 12500 and STAT 11300 with grade of C or better in each course.</i>	Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: STAT 21300 or <u>MATH 12400</u> or <u>MATH 12500</u> or <u>MATH 12550</u> and STAT 11300 with grade of C or better in each course.</i>
Hours	3	Hours	3
Credits	3	Credits	3
Description	Analysis of variance, simple and multiple regression, nonparametric statistics, statistical model building	Description	Analysis of variance, simple and multiple regression, nonparametric statistics, statistical model building
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F	Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F
Core Requirement	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition	Core Requirement	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition

	<input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	being considered for the Common Core, please see Appendix B for CUNY Common Core Submission Forms. The form must be submitted along with the proposal and syllabus.)	<input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term Note: Most proposals take 2-3 semesters to be available for student to register	FALL 2019

2. **Rationale:** This is a routine addition of similar but alternative prerequisite coursework newly offered by the Department of Mathematics & Statistics.

3. **Consultation Statement:**

a) Is the proposed change likely to affect other Departments or Programs?

NO YES – If yes, list department/program:

Has the Department/Program been consulted? NO YES N/A

b) Is this course cross-listed? If so, please list all courses affected.

c) Does this affect the Library? NO YES

Have you consulted the subject liaison? NO YES N/A

For new courses or programs, please consult.

MATHEMATICS & STATISTICS DEPARTMENT
Hunter College, CUNY

Routine Change in Prerequisite

FROM (strike through what will be changed)		TO (<u>underline</u> the changes)	
Name	Intermediate Topics in Statistics	Name	Intermediate Topics in Statistics
Prefix & Five Digit Course Number (XXXXX)	STAT 29500	Prefix & Five Digit Course Number (XXXXX)	STAT 29500
Pre and/or Co Requisites (specify which are pre, co, or both)	<i>Prereq STAT 21300 or STAT 11300 and MATH 12500; additional prereqs. depend on specific course offered.</i>	Pre and/or Co Requisites (specify which are pre, co, or both)	<i>Prereq STAT 21300 or STAT 11300 and <u>MATH 12400</u> or MATH 12500 or MATH 12550; additional prereqs. depend on specific course offered.</i>
Hours	3	Hours	3
Credits	3	Credits	3
Description	Topics to be studied in any given term will be announced prior to registration. May be repeated as topics vary, but not more than twice.	Description	Topics to be studied in any given term will be announced prior to registration. May be repeated as topics vary, but not more than twice.
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F	Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F
Core Requirement	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning	Core Requirement (<i>Note:</i> If course is being considered for the Common Core, please see	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning

	<input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	Appendix B for CUNY Common Core Submission Forms. The form must be submitted along with the proposal and syllabus.)	<input type="checkbox"/> Creative Expression <input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term Note: Most proposals take 2-3 semesters to be available for student to register	FALL 2019

2. **Rationale:** This is a routine addition of similar but alternative prerequisite coursework newly offered by the Department of Mathematics & Statistics.

3. **Consultation Statement:**

- a) Is the proposed change likely to affect other Departments or Programs?
 NO YES – If yes, list department/program:
 Has the Department/Program been consulted? NO YES N/A
- b) Is this course cross-listed? If so, please list all courses affected.
- c) Does this affect the Library? NO YES
 Have you consulted the subject liaison? NO YES N/A
 For new courses or programs, please consult.

MATHEMATICS & STATISTICS DEPARTMENT
Hunter College, CUNY

Routine Change in Prerequisite

FROM (strike through what will be changed)		TO (<u>underline</u> the changes)	
Name	Advanced Biometrics	Name	Advanced Biometrics
Prefix & Five Digit Course Number (XXXXX)	STAT 35100	Prefix & Five Digit Course Number (XXXXX)	STAT 35100
Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: math at level of MATH 12500, STAT 11300, 21300</i>	Pre and/or Co Requisites (specify which are pre, co, or both)	<i>prereq: math at level of <u>MATH 12400</u>, <u>MATH 12500</u>, <u>STAT 11300</u>, 21300</i>
Hours	3	Hours	3
Credits	3	Credits	3
Description	A second course in statistics covering quantitative methods applicable in the life sciences. Topics include experimental design, life table analysis, ethical issues, survival analysis, logistic regression and Cox regression. Linear algebra recommended but not required.	Description	A second course in statistics covering quantitative methods applicable in the life sciences. Topics include experimental design, life table analysis, ethical issues, survival analysis, logistic regression and Cox regression. Linear algebra recommended but not required.
Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liberal Arts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F	Grading Scale Undergraduate A-F; Graduate A-C, F; C/NC	A-F
Core Requirement	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression	Core Requirement (<u>Note</u> : If course is being considered for the Common Core, please see Appendix B for	<input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Common Core <input type="checkbox"/> English Composition <input type="checkbox"/> Scientific World <input type="checkbox"/> Math and Quantitative Reasoning <input type="checkbox"/> Creative Expression

	<input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society	CUNY Common Core Submission Forms. The form must be submitted along with the proposal and syllabus.)	<input type="checkbox"/> Life and Physical Science <input type="checkbox"/> U.S. Experience in its Diversity <input type="checkbox"/> World Cultures and Global Issues <input type="checkbox"/> Individual and Society
		Effective Term Note: Most proposals take 2-3 semesters to be available for student to register	FALL 2019

2. Rationale: This is a routine addition of similar but alternative prerequisite coursework newly offered by the Department of Mathematics & Statistics.

3. Consultation Statement:

a) Is the proposed change likely to affect other Departments or Programs?

NO YES – If yes, list department/program:

Has the Department/Program been consulted? NO YES N/A

b) Is this course cross-listed? If so, please list all courses affected.

c) Does this affect the Library? NO YES

Have you consulted the subject liaison? NO YES N/A

For new courses or programs, please consult.