

QUEENSBOROUGH COMMUNITY COLLEGE
CITY UNIVERSITY OF NEW YORK
CURRICULUM COMMITTEE

To: Emily Tai, Academic Senate Steering Committee
From: Philip A. Pecorino, Chairperson, Committee on Curriculum
Date: February 27, 2013
Subject: Monthly Report for March 2013 -revised

The Committee on Curriculum has acted to send the following recommendation to the Academic Senate.

1. New Courses
2. Changes in Courses
3. Changes in Programs
4. Addenda to CUNY Chancellor's Report from QCC
5. QCC COMMON CORE: ALL COURSES ARE APPROVED BY SENATE AND REVIEW COMMITTEES UNLESS OTHERWISE NOTED (as of 2/23/13)

1. NEW COURSES

DEPARTMENT OF ACADEMIC LITERACY

CN-73-from Experimental to Regular Offering

CN073 Reading and Writing Community Stories 4 class hours, 0 credit

Pre-requisites: None

Rationale: This is a second semester in a developmental sequence of courses offered to students in the College Now program. Students with whom the course has been piloted have responded enthusiastically to the course content and generally performed well on the CUNY placement exam upon completion of the course. The College Now program believes that this course is needed for students to take after CN072 in order to be prepared to do college level work when they come to college. The demand for this course in high schools partnering with QCC College Now is very high. Projected enrollment is 200 students per semester and possibly more.

NOTE: CN073 Reading and Writing Community Stories was accepted as "experimental" at the December 11, 2011 meeting of the Academic Senate. The intent of this submission is to move this course from experimental to an official offering by the Basic Skills Department on behalf of College Now.

NOTE: CN073 Reading and Writing Community Stories was piloted through At Home in College (AHC) during the 2011-2012 academic year. AHC's initial data shows that 760 AHC students began their senior year on-track to graduate and sat for the CUNY Assessment Tests as part of At Home in College. Of these students, 426 (56%) gained proficiency in Reading and 365 (48%) gained proficiency in Writing by the end of their senior year.

CHANGES IN COURSES

DEPARTMENT of SOCIAL SCIENCES

From: SS320 Urban Sociology

To: SOCY220 Urban Sociology

From: SS540 Social Psychology

To: PSYC240 Social Psychology

Rationale: These were mothballed courses which the Department wishes to offer Fall 2013. They were not included in the listing of courses for which the Academic Senate has already changed the prefixes last Fall. This is needed to make them consistent with the prefixes of other active classes.

5.) DEPARTMENTS of SCIENCES and ENGINEERING TECHNOLOGY

AS Degree Program in Engineering

AS Degree program in Science

AS Health Sciences

QCC ADDENDA to CUNY CHANCELLOR'S REPORT

Pathways Common Core Framework

The table below includes additional courses approved for the Pathways common core since the previous chancellor's report addendum.

| Course No. | Course Title | Category |
|-------------------|--|-----------------|
| CH 103 | Chemistry and the Arts | II.E |
| CRIM 101* | Introduction to the American Criminal Justice System | II.D |
| CRIM 102 | Criminology | II.D |
| CS 100 | Introduction to Computers and Programming | II.E |
| ECON 101 | Introduction to Macroeconomics | II.D |
| ECON 102 | Introduction to Microeconomics | II.D |
| ECON 150 | Labor and Management | II.D |
| ECON 160 | Contemporary Economic Issues | II.D |
| EN 101 | English Composition I | I.A |
| EN 102 | English Composition II: Introduction to Literature | I.A |
| ET 570 | Creating Smartphone Apps | II.E |
| ET 575 | Introduction to C++ Programming Design and Implementation | II.E |
| ET 841 | The Science of Energy and Power in the Modern World | I.C |
| ET 880 | Science and Technology in Modern Life | II.E |
| HI 185 | The Holocaust | II.D |
| HI 191 | History of Genocide in the Twentieth Century | II.A |
| LF 401 | French and Francophone Culture | II.D |
| LG 401 | The Culture of German-speaking Countries Today | II.D |
| LS 402 | Latin American and Caribbean Cultures | II.D |
| MA 321 | Mathematics in Contemporary Society | I.B |
| PH 123 | Natural Hazards | II.E |
| PH 124 | Global Warming | II.E |
| PH 129 | How Things Work | II.E |
| PH 202 | General Physics (STEM) | I.C, IIE |
| PH 240 | Computerized Physical Measurement Using Graphical Programming (STEM) | II.E |
| PH 302 | College Physics II (STEM) | I.C, II.E |
| PH 413 | Calculus Physics III (STEM) | II.E |
| PH 416 | Thermodynamics (STEM) | II.E |
| PH 440 | Modern Physics (STEM) | II.E |
| PHIL 101 | Introduction to Philosophy | II.D |
| PHIL 130 | Ethics: Theories of the Good Life | II.D |
| PHIL 165 | American Philosophy | II.D |
| SOCY 185 | Introduction to Social Work | II.D |
| SP 211 | Speech Communication | II.B |

*Included in previous chancellor's report addendum but with incorrect title.

STEM Variants

The table below includes additions STEM variants approved since the previous chancellor's report addendum.

I.C – LIFE AND PHYSICAL SCIENCES

| <u>CUNY Common Prefix</u> | <u>OCC Course</u> | <u>Course Title</u> | <u>Credits</u> | <u>Hours</u> | <u>Curricula in which course is required</u> |
|-----------------------------------|-----------------------|---------------------|----------------|--|--|
| PHYS | PH 202 | General Physics II | 4 | 3 class hours, 2 laboratory hours | <ul style="list-style-type: none"> • A.A.S., Computer Engineering Technology • A.A.S., Electronic Engineering Technology • A.A.S., Mechanical Engineering Technology • A.A.S., Telecommunications Technology |
| PHYS | PH 302 | College Physics II | 4 | 3 class hours, 1 recitation hour, 2 laboratory hours | <ul style="list-style-type: none"> • A.S., Health Sciences • A.S., Liberal Arts & Sciences (Mathematics & Science) |

II.E - SCIENTIFIC WORLD

| <u>CUNY Common Prefix</u> | <u>OCC Course</u> | <u>Course Title</u> | <u>Credits</u> | <u>Hours</u> | <u>Curricula in which course is required</u> |
|-----------------------------------|-----------------------|---|----------------|---|--|
| PHYS | PH 202 | General Physics II | 4 | 3 class hours, 2 laboratory hours | <ul style="list-style-type: none"> • A.A.S., Computer Engineering Technology • A.A.S., Electronic Engineering Technology • A.A.S., Mechanical Engineering Technology • A.A.S., Telecommunications Technology |
| PHYS | PH 302 | College Physics II | 4 | 3 class hours, 1 recitation hour, 2 laboratory hours | <ul style="list-style-type: none"> • A.S., Health Sciences • A.S., Liberal Arts & Sciences (Mathematics & Science) |
| PHYS | PH 240 | Computerized Physical Measurement Using Graphical Programming | 3 | 2 lecture hours, 3 laboratory hours | <ul style="list-style-type: none"> • Engineering Science • Liberal Arts & Science (Mathematics & Science) |
| PHYS | PH 413 | Calculus Physics III | 3.5 | 2 class hours, 2 recitation hours, 2 laboratory hours | <ul style="list-style-type: none"> • Engineering Science • Liberal Arts & Science (Mathematics & Science) |
| PHYS | PH 416 | Thermodynamics | 4 | 4 class hours | <ul style="list-style-type: none"> • Engineering Science • Liberal Arts & Science (Mathematics & Science) |

| <u>CUNY Common Prefix</u> | <u>OCC Course</u> | <u>Course Title</u> | <u>Credits</u> | <u>Hours</u> | <u>Curricula in which course is required</u> |
|-----------------------------------|-----------------------|---------------------|----------------|---------------|---|
| PHYS | PH 440 | Modern Physics | 4 | 4 class hours | <ul style="list-style-type: none"> • Engineering Science • Liberal Arts & Science (Mathematics & Science) |

Foreign Language Courses

The following courses, from the Department of Foreign Languages and Literature, have been approved by Queensborough Community College's Academic Senate but will not be offered at the college:

NOTE added for Academic Senate: *The Academic Senate has approved the following courses from the Department of Foreign Languages and Literatures. The courses, however, are not currently being scheduled for Fall 2013 because President Call has decided not to forward them to the World Cultures and Global Issues Common Core Review Committee. The reason cited for this decision is budgetary constraints at QCC and the cost of the fourth hour which is one hour above the credit hour.---Philip Pecorino*

LA 101 Introduction to Arabic I

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: None

Description: This course is designed to introduce the student to Modern Standard Arabic in a cultural context. Arabic alphabet, pronunciation, essential vocabulary, basic rules of grammar, and common expressions and greetings are presented. Students develop all four skills: reading, writing, speaking, and listening. The main focus is on Modern Standard Arabic (MSA), though students are trained to speak using spoken Arabic.

Rationale: Course will satisfy CUNY Common CORE category 2A. This course is being proposed as a new first-semester language course fulfilling Pathways learning objectives and the Common Core guidelines.

First- and second-semester language courses at Queensborough Community College have been 4 credits, 4 contact hours since at least 1985, and have successfully served generations of our students as an introduction to the formal study of language (including study of grammar and sentence construction), and the comparative study of culture and cultural practices.

For students taking remedial courses, the first-semester language course and second-semester language course are often the first credit-bearing courses for which they are allowed to register.

In view of the large proportion of under-prepared students we serve at the very beginning of their college career, the Foreign Languages Department proposes the new configuration 3 credits, 4 contact hours: 3 class hours plus 1 recitation hour as a way of maintaining the quality of our instruction while fitting within Common Core Guidelines (1-24-12).

The weekly recitation hour is justified by the need for students to receive additional intensive oral and written practice in the target language. Interactive oral and written activities will provide for the opportunity to practice the target language in pairs and groups.

The new configuration of 3 class hours + 1 recitation hour will ensure that the proficiency levels required by the Pathways learning outcomes can be achieved.

LA 102 Introduction to Arabic II

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: A grade of C or higher in LA 101 or placement by Foreign Language department

Description: This is the continuation of Introduction to Arabic I, focusing on Modern Standard Arabic. Students will continue studying the four essential language skills: listening, speaking, reading and writing using a communicative approach. They will also develop basic conversational and grammatical skills, and they will acquire additional insight into the cultural and social contexts of the Arabic-speaking world. Consistent emphasis is placed on authentic materials derived from the living cultural context.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LC 101 Introduction to Chinese I

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: None

Description: This course is an introduction to Mandarin Chinese. It is designed for students who have no previous background in Chinese Practice in the four language skills – listening, speaking, reading, and writing. Emphasis on pronunciation and conversation. Both the pinyin Romanization system and characters will be introduced. This is the first semester of a two-semester course of beginning Chinese. Weekly attendance in the language laboratory is required.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LC 102 Introduction to Chinese II

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: A grade of C or higher in LC 101 or placement by Foreign Language department

Description: Continuation of *Introduction to Chinese I*. Further practice in the four language skills to help students develop simple, practical conversational skills in Mandarin. Weekly attendance in the language laboratory is required.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LC 113 Introduction to Mandarin for Students of Chinese Heritage I

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: None

Description: This course is designed for students of Chinese heritage who have some listening and speaking skills in Mandarin or other Chinese dialects. The focus is on reading, writing, and grammar, along with improvement of oral communication skills.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LC 114 Introduction to Mandarin for Students of Chinese Heritage II

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: A grade of C or higher in LC 113 or placement by Foreign Language department

Description: Continuation of Introduction to Mandarin for Students of Chinese Heritage 1. It aims to consolidate the foundation that students have built in CHIN 113, to expand their vocabulary, to introduce them to more complex grammatical structures, and to continue to strengthen their oral communication skills.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LF 101 Introduction to French I

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: None

Description: This course is an introduction to the French language and the French-speaking world, incorporating a task-oriented approach to language learning. It is designed for students who have no previous background in French. It aims to develop the four basic language skills: listening, speaking, reading and writing. One hour per week of individual practice online or in the language lab is required.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LF 102 Introduction to French II

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: A grade of C or higher in LF 101 or placement by Foreign Language department

Description: This course is a continuation of Elementary French I. It aims to increase and strengthen students' acquisition of the four basic language skills: listening, speaking, reading and writing. One hour per week of individual practice online or in the language lab is required.

Rationale: Course will satisfy CUNY Common CORE category 2A

LG 101 Introduction to German I

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: None

Description: This course is an introduction to the German language and the German-speaking world, incorporating a task-oriented approach to language learning. It is designed for students who have no previous background in German. It aims to develop the acquisition of the four basic language skills: listening, speaking, reading and writing. One hour per week of individual practice online or in the language lab is required.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LG 102 Introduction to German II

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: LG101 or the equivalent with a grade of C or higher or placement by the Department of Foreign Languages

Description: This course is a continuation of Introduction to German I. It aims to increase and strengthen students' acquisition of the four basic language skills: listening, speaking, reading and writing. One hour per week of individual practice online or in the language lab is required.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LH 101 Introduction to Hebrew I

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: None

Description: This course is an introduction to the Hebrew language and Israel, incorporating a task-oriented approach to language learning. It is designed for students who have no previous background in Hebrew. It aims to develop the acquisition of the four basic language skills: listening, speaking, reading and writing.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LH 102 Introduction to Hebrew II

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: A grade of C or higher in LH 101 or placement by Foreign Language department

Description: This is the second semester course for elementary Hebrew. It focuses on the four essential language skills: listening, speaking, reading and writing. Students will continue studying the language through a communicative approach. They will also develop basic conversational and grammatical skills, and they will acquire additional insight into the cultural and social contexts of Hebrew.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LI 101 Introduction to Italian I

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: None

Description: This course is an introduction to the Italian language and Italy, incorporating a task-oriented approach to language learning. It is designed for students who have no previous background in Italian. It aims to develop the acquisition of the four basic language skills: listening, speaking, reading and writing. One hour per week of individual practice online or in the language lab is required.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LI 102 Introduction to Italian II

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: A grade of C or higher in LI 101 or placement by Foreign Language department

Description: This course is a continuation of Elementary Italian I. It aims to increase and strengthen students' acquisition of the four basic language skills: listening, speaking, reading and writing. One hour per week of individual practice online or in the language lab is required.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LS 101 Introduction to Spanish I

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: None

Description: This course is an introduction to the Spanish language and to Hispanic culture, incorporating a task-oriented approach to language learning. It is designed for students who have no previous background in Spanish. It aims to develop the acquisition of the four basic language skills: listening, speaking, reading and writing. One hour per week of individual practice online or in the language lab is required.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LS 102 Introduction to Spanish II

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: A grade of C or higher in LS 101 or placement by Foreign Language department

Description: This course is a continuation of Introduction to Spanish I. It aims to increase and strengthen students' acquisition of the four basic language skills: listening, speaking, reading and writing. One hour per week of individual practice online or in the language lab is required.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

LS 141 Introduction to Spanish for Medical Personnel

Hours and Credits: 3 credits, 3 class hours + 1 recitation hour

Pre-co requisites: None

Description: Course equivalent to SPAN101, or the first semester of the basic language requirement. This course is an introduction to Spanish language and to Hispanic culture. Elements of Spanish grammar and orthography with emphasis on the vocabulary, scientific terms, and idioms necessary to communicate with Spanish-speaking patients. The course is designed for students who do not have any previous knowledge of the language. Native speakers should not take this course.

Rationale: Same as for LA 101 and the course will satisfy CUNY Common CORE category 2A

Science Courses

The table below includes science courses that have been approved by Queensborough Community College's Academic Senate for I.C. but will not be offered as Pathways common core courses in their current form:

| <i>Course no.</i> | <i>Course title</i> |
|-------------------|-----------------------------------|
| GE 102 | Historical Geology |
| PH 110 | Principles of Astronomy and Space |

Curricular changes

Every A.A. and A.S. degree program not a dual/joint degree program has been revised to conform to the Pathways paradigm; curricular changes for each degree program appear on the following pages (previous configuration on the left, modified curriculum on the right).

Business Administration – A.S. – Curricular Revision

| FROM: | Credits | TO: | Credits |
|--|-----------|---|---------------|
| General Education* | | Common Core | |
| English Composition I, II (EN 101 or 103 and EN 102) | 6 | REQUIRED CORE: I. A. English Composition I, II | 6 |
| Foreign Language and/or Liberal Arts and Sciences | 4-8 | REQUIRED CORE: I. B. Mathematical and Quantitative Reasoning (Select one course from I.B; recommended: MA 128 or 260 or 440 <i>see note under Major electives</i>) | 3 |
| Mathematics (MA 128 or MA 260 or MA 440) | 4 | REQUIRED CORE: I. C. Life and Physical Sciences (Select one course from I.C; <i>see note under Major electives.</i>) | 3 |
| Laboratory Science | 4-4.5 | FLEXIBLE CORE: II. A. World Cultures and Global Issues (Select one course from II.A) | 3 |
| Health Education (HE 101 of HE 102) | 1-2 | FLEXIBLE CORE: II. B. U.S. Experience in Its Diversity (Select one course from II.B) | 3 |
| History (one course selected from HI-110, 111, or 112) | 3 | FLEXIBLE CORE: II. C. Creative Expression (Select one course from II.C) | 3 |
| Macroeconomics & Microeconomics (SS 211 & SS 212) | 6 | FLEXIBLE CORE: II. D. Individual and Society (Select one course from II.D) | 3 |
| Speech Communication (SP-211) or Humanities | 3 | FLEXIBLE CORE: II. E. Scientific World (Select one course from II.E) | 3 |
| Social Sciences elective | 3 | FLEXIBLE CORE: II. A, B, C, D or E. (Select one additional course) | 3 |
| General Education Subtotal | 31-36.5 | Subtotal | 30-34* |
| | | <i>*The credit range accounts for those students who opt to take STEM variants in I.B, I.C, II.E, and the additional course in the flexible core.</i> | |
| Major | | Major Requirements | |
| BU 101 Principles of Accounting I | 4 | BU 101 Principles of Accounting I | 4 |
| BU 102 Principles of Accounting II | 4 | BU 102 Principles of Accounting II | 4 |
| BU 201 Business Organization and Management | 3 | BU 201 Business Organization and Management | 3 |
| BU 203 Principles of Statistics | 3 | BU 203 Principles of Statistics | 3 |
| BU 301 Business Law I | 3 | BU 301 Fundamentals of Business Law | 3 |
| BU 512 Introduction to Information Systems and Technologies | 3 | BU 512 Introduction to Computer Systems and Technologies | 3 |
| BU 401 Elements of Marketing or BU 701 Principles of Finance | 3 | ECON 101 Introduction to Microeconomics or ECON 102 Introduction to Macroeconomics* | 3 |
| | | *Students who have taken ECON 101 or ECON 102 in the common core are required to take BU 401 or BU 701 – It is suggested that both BU 401 and BU 701 be taken for transfer to a 4 year business program. | |
| Subtotal | 23 | Subtotal | 23 |
| Elective(s) | | Major Electives | |
| Free electives | 1-6 | Laboratory science (<i>for students who have not taken STEM variant in I.C and/or II.E</i>) | 0-1 |
| Current Total and Subtotal | 60 | Math (<i>for students who have not taken STEM variant in I.B</i>) | 0-1 |
| | | Subtotal | 0-2 |
| | | Elective(s) – free electives | 3-5 |
| | | Total | 60 |

Engineering Science – A.S. – Curricular Revision

| From: | Credits |
|--|-----------|
| General Education* | |
| English Composition I, II (EN 101 and EN 102) | 6 |
| Humanities elective or Speech Communication (SP 211) | 3 |
| History (one course selected from HI-110, 111, or 112) | 3 |
| Social Sciences, History, or Humanities elective | 3 |
| Social Sciences elective | 3 |
| Health Education (HE 102) | 2 |
| Analytical Geometry and Calculus I, II, III (MA 441, 442, 443) | 12 |
| Differential Equations (MA 451) or Linear Algebra (MA 461) | 4 |
| General Chemistry (CH 151, 152) | 9 |
| Calculus Physics I, II, III (PH 411, 412, 413) | 10 |
| Modern Physics (PH 440) or Analytical Mechanics (PH 414) | 4 |
| Subtotal | 59 |
| Requirement Related to the Major | |
| CH 251 Organic Chemistry I CH 252 Organic Chemistry II CS 101 Algorithmic Problem Solving I EE 101 Engineering Design I EE 103 Computer-aided Analysis for Electrical Engineers EE 204 Electric Circuits ET 810 Digital Computation Fundamentals GE 101 Physical Geology MA 471 Introduction to Discrete Mathematics MT 293 Parametric Computer-aided Design Drafting | 6 |
| Subtotal | 6 |
| Current Total | 65 |

| To: | Credits |
|--|----------------|
| Common Core | |
| REQUIRED CORE: I. A. English Composition I, II (EN 101 and EN 102) | 6 |
| REQUIRED CORE: I. B. Mathematical and Quantitative Reasoning (Select one course from I.B. Advised: MA 441, required for major.) | 3(-4) |
| REQUIRED CORE: I. C. Life and Physical Sciences (Select one course from I.C. Advised: CH 151, required for major.) | 3(-4) |
| FLEXIBLE CORE: II. A. World Cultures and Global Issues (Select one course from II.A) | 3 |
| FLEXIBLE CORE: II. B. U.S. Experience in Its Diversity (Select one course from II.B) | 3 |
| FLEXIBLE CORE: II. C. Creative Expression (Select one course from II.C) | 3 |
| FLEXIBLE CORE: II. D. Individual and Society (Select one course from II.D) | 3 |
| FLEXIBLE CORE: II. E. Scientific World (Select one course from II.E. Advised: PH 411, required for major) | 3(-4) |
| FLEXIBLE CORE: II. A, B, C, D or E. (Select one additional from II.E. Advised: PH 412, required for major.) | 3(-4) |
| Subtotal | 30-34* |
| <i>*Credits beyond 30 in the Common Core will count as electives; see below.</i> | |
| Major | |
| MA 442 and 443 Analytical Geometry II and III | 8 |
| MA 451 Differential Equations | 4 |
| PH 413 Calculus Physics III | 3.5 |
| EE 101 Engineering Design I | 1 |
| EE 204 Electric Circuits | 3 |
| EE 103 Computer-aided Analysis for Electrical Engineers | 2 |
| <i>Computer programming options (select one):</i> PH 240 Computerized Physical Measurement using Graphical Programming ET 810 Digital Computation Fundamentals ET 505 Introduction to C++ Object Oriented Programming CS 101 Algorithmic Problem solving I | 3 |
| Subtotal | 24.5 |
| Engineering Concentrations | |
| <i>Chemical Engineering:</i> CH 152, General Chemistry II; CH 251, Organic Chemistry I; CH 252, Organic Chemistry II | 6.5-8.5 |
| <i>Civil Engineering:</i> PH 416, Thermodynamics; MT 345, Strength of Materials; MA 461, Linear Algebra | 6.5-8.5 |
| <i>Electrical Engineering:</i> EE 205, Linear Systems Analysis; PH 416, Thermodynamics; CH 152, General Chemistry II; ET 540, Digital Computer Theory I | 6.5-8.5 |
| <i>Mechanical Engineering:</i> MT 293, Parametric Computer-aided Design Drafting; PH 416, Thermodynamics; PH 440, Modern Physics; MA 461, Linear Algebra; CH 152, General Chemistry II | 6.5-8.5 |
| Subtotal | 6.5-8.5 |
| Elective(s) | |
| I.B, I.C, and II.E elective credits | 0-4 |
| Subtotal | 0-4 |
| Total | 65 |

Gallery and Museum Studies – A.S. – Curricular Revision

| FROM: | Credits | TO: | Credits |
|--|--------------|--|---------------|
| General Education | | Common Core | |
| EN-101, 102 English Composition I, II | 6 | REQUIRED CORE: I. A: English Composition I, II Take EN-101 or EN-103 and EN-102 | 6 |
| AR-311 History of Art I | 3 | REQUIRED CORE: I. B: Mathematical & Quantitative Reasoning (Select one course) MA-301 or MA-119 recommended | 3 |
| Foreign Language (3 to 8 credits) | 6-8 | REQUIRED CORE: I. C: Life & Physical Sciences (Select one course) CH-106 (4 credits) recommended (see Additional Major Requirements below) | 3 |
| MA-301 or 120 Mathematics | 3 | FLEXIBLE CORE: II. A: World Cultures & Global Issues (Select one course) Foreign Language or History recommended | 3 |
| CH-103 Chemistry and the Art | 3 | FLEXIBLE CORE: II. B: U.S. Experience in Its Diversity (Select one course) | 3 |
| CH-104 Chemistry and the Arts Laboratory | 1 | FLEXIBLE CORE: II. C: Creative Expression (Select one course) AR-315, AR-316, AR317, AR-320, AR-326 or AR-328 recommended | 3 |
| HE-102 Health Education | 2 | FLEXIBLE CORE: II. D: Individual & Society (Select one course) SOCY-125 recommended | 3 |
| HI-110, 111, or 112 History | 3 | FLEXIBLE CORE: II. E: Scientific World (Select one course) | 3 |
| SP-211 Speech Communication | 3 | FLEXIBLE CORE: II: A, B, C, D or E (Select one course) AR-315, AR-316, AR-317, AR-320, AR-326 or AR-328 recommended | 3 |
| SS-110, 310, or 510 Social Sciences elective | 3 | Subtotal | 30-31* |
| Subtotal | 33-35 | <i>*The credit range accounts for students who opt to take a STEM variant in I.C.</i> | |
| Major | | Major | |
| AR-801 Art Administration | 3 | AR-801 Art Administration | 2 |
| AR-804 Art Institutions and the Business of Art | 3 | AR-804 Art Institutions and the Business of Art | 3 |
| AR-803 Art Curating | 3 | AR-803 Art Curating | 3 |
| AR-312 History of Art II | 3 | AR-311 History of Art I | 3 |
| AR-320 Contemporary Art | 3 | AR-312 History of Art II | 3 |
| AR-901, 902 Gallery Internship I, II | 4 | AR-901, 902 Gallery Internship I, II | 4 |
| BU-201 Business Organization and Management | 3 | BU-201 Business Organization and Management | 3 |
| Subtotal | 21 | Subtotal | 21 |
| Elective(s) | | Additional Major Requirements | |
| Art History elective (AR-315, AR-326 or AR-328, recommended) | 3 | HE-101 or 102 Health Education | 1-2 |
| Free electives | 1-3 | SP-211 Speech Communication (<i>if SP-211 is taken as part of the Common Core, take an additional Art History elective</i>) | 3 |
| Subtotal | 4-6 | CH-104 Chemistry and the Arts Laboratory (<i>students who have taken CH-106 have filled this requirement</i>) | 0-1 |
| Total | 60 | Foreign Language | 3-4 |
| | | Subtotal | 7-9 |
| | | Free electives | 0-1 |
| | | Total | 60 |

Health Sciences – A.S. – Curricular Revision

| FROM: | Credits |
|--|------------------|
| General Education | |
| English Composition (EN 101, 102) | 6 |
| Foreign Language and/or Liberal Arts and Sciences and/or Speech | 6-8 |
| Social Science (SS 510, Psychology) | 3 |
| History | 3 |
| Social Sciences, History, or Humanities elective | 3 |
| Mathematics (MA 336 or 440) | 3-4 |
| Laboratory Sciences (BI 201, 202 and CH 127 or CH 151) | 12.5 |
| Subtotal | 36.5-39.5 |
| Course distribution | |
| See transfer articulations | 20-23 |
| Subtotal | 20.5-23.5 |
| Pre-professional preparation (unless taken in core distribution) | |
| Organization and Delivery of Health Care (BI 150) | 2 |
| The Health of the Nation | 2 |
| Scientific Use of Computers (PH 303) or equivalent computer apps. course | 2 |
| Subtotal | 6 |
| Total | 60 |
| Major/Course Distribution based on transfer articulations: CHOOSE FROM: ANTH 101 (formerly SS 110); AR 310; BI 150; 151; 235*; 250; 311; 403; 421*; 453; 456; 457, 461; 510; 550; 551; 558; BU 101; 201; 500; CH 127; 128; 151; 152; 251; 252; CS 100; ECON 101 (formerly SS211); EN 401; 402; 444; 445; ET 501; HE 103; 105; 106; 110; 111; IS 151; 210; 220; MA 441; MU 110; 271; 272; PE 441 OR 530; PH 301; 302; 303; PSYC 220 (formerly SS520); PSYC 225 (formerly SS525); PSYC 230 (formerly SS530); PSYC 270 (formerly SS570); SOC 101 (formerly SS310). * BI 301 and BI 302 may be substituted for BI 235 and BI 421. | |

| TO: | Credits |
|--|---------------|
| Common Core | |
| REQUIRED CORE: I. A: English Composition I, II (Take EN 101 & 102) | 6 |
| REQUIRED CORE: I. B: Mathematical & Quantitative Reasoning (Recommended: MA 336 or MA 440) | 3 |
| REQUIRED CORE: I. C: Life & Physical Sciences (Recommended: BI 201) | 3 |
| FLEXIBLE CORE: II. A: World Cultures & Global Issues (Select one course) | 3 |
| FLEXIBLE CORE: II. B: U.S. Experience in Its Diversity (Select one course) | 3 |
| FLEXIBLE CORE: II. C: Creative Expression (Select one course) | 3 |
| FLEXIBLE CORE: II. D: Individual & Society (Select one course) | 3 |
| FLEXIBLE CORE: II. E: Scientific World (Recommended: PSYC 101) | 3 |
| FLEXIBLE CORE: II: A, B, C, D or E (Recommended: CH 127 or 151) | 3 |
| Subtotal | 30-34* |
| <i>The credit range accounts for students who take STEM variants in I.B, I.C, and II.E.</i> | |
| Major/Course Distribution | |
| BI 202 | 4 |
| Organization and Delivery of Health Care (BI 150) | 2 |
| The Health of the Nation (IS 151) | 2 |
| PH 303 or an equivalent computer applications course | 2 |
| Advised major electives selected from the list below and guided by appropriate transfer articulations; includes credits from STEM variants beyond 30 which are taken as part of the common core. | 16-20 |
| Subtotal | 26-30 |
| Total | 60 |

Liberal Arts and Sciences – A.A. – Curricular Revision

| Current | Credits | Revised | Credits |
|--|--------------|---|---------------|
| GENERAL EDUCATION | | PATHWAYS COMMON CORE REQUIREMENTS | |
| Art (AR 300 series) or Dance (PE-711) or Music (MU100 series) or Speech Communication and Theatre Arts (SP-471, 472) or TH-111 (formerly SP-532) | 3 | Required Core: I.A English Composition EN-101, 102 English Composition I, II | 6 |
| English: EN-101 and 102 and one course selected from EN-200, 300, or 400 series | 9 | Required Core: I.B Mathematical and Quantitative Reasoning Select one course | 3 |
| Foreign Language: Two sequential language courses are required (level and sequence of courses are determined by students' previous knowledge and/or performance on departmental placement exam).* | 6-8 | Required Core: I.C Life and Physical Sciences Select one course | 3 |
| Mathematics: Students may select one of the following: MA-120❖, 301, 303, 315, 321, 336, 440, 441, 442 (❖ MA-120 fulfills the mathematics requirement only for the A.A. in Liberal Arts & Science and for the A.S. in Visual and Performing Arts.) | 3-4 | Flexible Core: II.A World Cultures and Global Issues Select one course | 3 |
| Laboratory Science To be chosen in accordance with laboratory science requirements listed under Understanding Program Requirements. | 4-4.5 | Flexible Core: II.B U.S. Experience in Its Diversity Select one course | 3 |
| Elective in Mathematics (any course in the list above), Natural Science (any non-laboratory or laboratory science course – see list below of non-laboratory science courses), Computer Literacy (CS-100 or ET-820), or Computer Science (CS-101) <i>Please note that BU-500 does not satisfy this requirement, but may be taken as a free elective.</i> | 3-4.5 | Flexible Core: II.C Creative Expression Select one course | 3 |
| Health Education (HE-101 or 102) | 1-2 | Flexible Core: II.D Individual and Society Select one course | 3 |
| HI-110, 111, or 112 and one additional course in HI-100 series | 6 | Flexible Core: II.E Scientific World Select one course | 3 |
| Two courses in Physical Education or Dance from the PE-400, 500, or 600 series | 2 | Flexible Core: II A, B, C, D, or E Select one course | 3 |
| Social Sciences | 6 | Sub-total | 30-34* |
| Speech Communication: SP-211 | 3 | <i>*The credit range accounts for those students who opt to take STEM variants in I.B, I.C, II.E, and the additional course in the flexible core.</i> | |
| Liberal Arts and Sciences elective(s)** to make up a minimum of 48 Liberal Arts and Sciences credits | 0-5 | MAJOR REQUIREMENTS | |
| Sub-total | 51-52 | Liberal arts and sciences courses to make up a minimum of 48 Liberal Arts and Sciences credits ALL STUDENTS IN THE LIBERAL ARTS AND SCIENCE A.A. DEGREE PROGRAM MUST CHOOSE FROM AND COMPLETE ONE OF THE CONCENTRATIONS (SEE DETAILS BELOW) TO COMPLETE THE DEGREE REQUIREMENTS. | 14-18 |
| ELECTIVES | | Sub-total | 14-18 |
| | | ADDITIONAL MAJOR REQUIREMENTS | |
| | | HE 101 or HE-102 | 1-2 |
| | | Two courses in Physical Education or Dance from PE 400 and 500 series or DAN 100 series | 2 |
| | | Sub-total | 3-4 |
| Free electives | 8-9 | ELECTIVES OR CONCENTRATION CHOICES | |
| Sub-total | 8-9 | Free electives or concentration choices – see below | 8-9 |
| TOTAL CREDITS REQUIRED | | Sub-total | 8-9 |
| | | TOTAL CREDITS REQUIRED | |
| | | 60 | |
| * Students with prior study in languages not taught at College should consult with chair of Foreign Languages & Literatures for evaluation and choose another course offered by department. ** See section on Understanding Program Requirements. Non-laboratory Science Electives | | Liberal Studies – To complete a concentration in Liberal Studies, students must complete the major requirements below: <ul style="list-style-type: none"> • Two Foreign Language courses (<i>two sequential courses are required, level and sequence to be determined by department placement</i>) • HI-110 or HI-111 or HI-112 (<i>if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one Social Science course from Anthropology,</i> | |

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| <p>Geology 100, Geology 105, Geology 125 Biology 110, Biology 120, Biology 170‡ Chemistry 101‡, Chemistry 103‡, Chemistry 110‡, Chemistry 120‡, Chemistry 130‡ Physics 103‡, Physics 120‡ ‡ Courses with option of laboratory</p> | | <p><i>CRIM 101 or 102, Economics, Sociology, Political Science, or Psychology is required)</i></p> <ul style="list-style-type: none"> • SP-211 (if already taken in common core, one Social Science course from Anthropology, CRIM 101 or 102, Economics, Sociology, Political Science, or Psychology is required) • One English course from EN-200, EN-300 or EN-400 series • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>Free electives (8-9 credits)</p> |
| | | <p>American Studies – To complete a concentration in American Studies, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Language courses (two sequential courses are required, level and sequence to be determined by department placement) • HI-110, HI-111, or HI-112 (if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from American Studies concentration) • SP-211 • One English course from EN-219, EN-220, EN-411, EN-412 • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>Choose (8-9 credits) from the American Studies Concentration: ANTH-140, SOCY-101, PLSC-101, PLSC-180, AR-316; HI-125, HI-127, HI-128, HI-129, HI-135; MU-141; SP-471, 472 ; PHIL-165</p> |
| | | <p>English – To complete a concentration in English, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Language courses (two sequential courses are required, level and sequence to be determined by department placement) • SP-211 (if already taken in common core, one additional course from the EN-200, EN-300, or EN-400 series is required) • One science lab. course (students who take STEM variant in common core have satisfied this requirement) • One Social Sciences course from ANTH-101, SOCY-101, SOCY-125, PLSC-101, CRIM-101 or CRIM-102 (if already taken in common core, one additional course from choices above required; if two of these Social Sciences courses have been taken in common core, one additional course from EN-200, EN-300, or EN-400 series is required) • One History course from HI-110 or HI-111 or HI-112 (if already taken in common core, one additional History course is required; if two History courses have been taken in common core, one additional course from EN-200, EN-300, or EN-400 series is required) • Concentration (9 credits): EN-230 and choose from EN-200, EN-300, or EN-400 series. |
| | | <p>Exercise Science – To complete a concentration in Exercise Science, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Languages courses (two sequential courses are required, level and sequence to be determined by department placement) • HI-110 or HI-111 or HI-112 (if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from Anthropology, Economics, Sociology, Political Science, Psychology is required) • SP-211 (if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from PSYC 100 series is required) • One English course from EN-200, EN-300, or EN-400 series • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>PE 825 Introduction to Exercise Sciences, HE 103 Nutrition and Health, and HE 108 Physical Fitness Assessment and Prescription</p> |
| | | <p>Gender Studies – To complete a concentration in Gender Studies, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Language courses (two sequential courses are required, level and sequence to be determined by department placement) |

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| | <ul style="list-style-type: none"> • HI-110, HI-111, or HI-112 (if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from Gender Studies concentration) • Speech Communication: SP-211 • Choose one English course from EN-200, EN-300, or EN-400 series (recommended: EN-224, 225: Special Topics in Writing as Craft: Gender Studies) • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>Choose (8-9 credits) from Gender Studies concentration: HI-126, HI-152, ANTH-170, SOCY-230, SOCY-250, PSYC-255, EN-224, EN-225, HE-105</p> |
| | <p>Health and Behavior – To complete a concentration in Health and Behavior, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Language courses (two sequential courses are required, level and sequence to be determined by department placement) • HI-110 or HI-111 or HI-112 (if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from PSYC-125, SOCY-290 or ANTH-160 is required) • SP-211 (if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from PSYC-125, SOCY-290 or ANTH-160 is required) • One English course from EN-200, EN-300 or EN-400 series • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>Choose (8-9 credits) from: HE-107 Mental Health: Understanding Your Behavior, HE-104 Addictions and Dependencies, HE-111 Stress Management</p> |
| | <p>Health Promotion and Disease Prevention – To complete a concentration in Health Promotion and Disease Prevention, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Language courses (two sequential courses are required, level and sequence to be determined by department placement) • HI-110 or HI-111 or HI-112 (if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from Anthropology, Economics, Sociology, Political Science, Psychology is required) • SP-211 (if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from PSYC-100 series is required) • One English course from EN 200, 300, or 400 series • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>IS-151 Health of the Nations, HE-105 Human Sexuality, PE-540 Introduction to Physical Fitness, and HE-114 Foundations of Health Promotion and Disease Prevention</p> |
| | <p>International Studies – To complete a concentration in International Studies, students must complete the major requirements below.</p> <ul style="list-style-type: none"> • Two Foreign Language courses (sequential courses are required, level and sequence of courses to be determined by departmental placement) • HI-110 or HI-111 or HI-112 (if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from: Foreign Language Culture Courses in Translation (400-level); HI-118, HI-133, HI-140, HI-141, HI-152, HI-191, HI-195; MU-120, MU-180; AR-310, AR-311, AR-312, AR-326, AR-328; ANTH-101, ANTH-130, ANTH-150, ECON-235, PLSC-140 • SP-211 (if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from: Foreign Language Culture Courses in Translation (400-level); HI-118, HI-133, HI-140, HI-141, HI-152, HI-191, HI-195; MU-120, MU-180; AR-310, AR-311, AR-312, AR-326, AR- |

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| | | <p>328; ANTH-101, ANTH-130, ANTH-150, ECON-235, PLSC-140</p> <ul style="list-style-type: none"> • One English course from EN-444, EN-445, or EN-446 • One science lab course (students who take STEM variant in common core have satisfied this requirement) <p>Choose 3 credits from Foreign Language 200 or 300 level <i>and</i> 5–6 credits from: Foreign Language Culture Courses in Translation (400-level); HI-118, HI-133, HI-140, HI-141, HI-152, HI-191, HI-195; MU-120, MU-180; AR-310, AR-311, AR-312, AR-326, AR-328; ANTH-101, ANTH-130, ANTH-150, ECON-235, PLSC-140</p> |
| | | <p>Nutrition – To complete a concentration in Nutrition, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Language courses (<i>two sequential courses are required, level and sequence to be determined by department placement</i>) • HI-110 or HI-111 or HI-112 (<i>if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from Anthropology, Economics, Sociology, Political Science, Psychology is required</i>) • SP-211 (<i>if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from PSYC-100 series is required</i>) • One English course from EN-200, EN-300, or EN-400 series • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>IS-151 Health of the Nations, HE-103 Nutrition and Health, <i>and</i> HE-114 Foundations of Health Promotion and Disease Prevention</p> |
| | | <p>Physical Education – To complete a concentration in Physical Education, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Language courses (<i>two sequential courses are required, level and sequence to be determined by department placement</i>) • HI-110 or HI-111 or HI-112 (<i>if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from Anthropology, Economics, Sociology, Political Science, Psychology is required</i>) • SP-211 (<i>if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from PSYC-100 series is required</i>) • One English course from EN-200, EN-300, or EN-400 series • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>HE-110, PE-540, PE-825, <i>and</i> three courses in PE-500 series</p> |
| | | <p>Psychology – To complete a concentration in Psychology, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Language courses (<i>two sequential courses are required, level and sequence to be determined by department placement</i>) • HI-110 or HI-111 or HI-112 (<i>if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from PSYC-200 series is required</i>) • SP-211 (<i>if already taken in common core, one course from HI-100 series is required unless two History courses have been taken in common core</i>) • One English course from EN-200, EN-300 or EN-400 series • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>Choose (8-9 credits) from PSYC-200 series. Students who plan to pursue a Psychology major are strongly recommended to take the following: PSYC 230 Abnormal Psychology <i>or</i> PSYC 250 Personality <i>and</i> PSYC 215 Child Development <i>or</i> PSYC 220 Human Growth and Development</p> |
| | | <p>Sociology – To complete a concentration in Sociology, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Language courses (<i>two sequential courses are required, level and sequence to be determined by department placement</i>) • HI-110, HI-111, or HI-112 (<i>if already taken in common core, one course from HI-100 series is required; if two History courses have been</i> |

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|--|--|
| | <p><i>taken in common core, one additional course from SOCY-200 series is required)</i></p> <ul style="list-style-type: none"> • Speech Communication: SP-211 • One English course from EN-200, EN-300, or EN-400 series (recommended: EN-216 Popular Culture; EN-224, 225 Special Topics in Writing as Craft: The Immigrant Experience or Navigating Difference: Reading and Writing About Being “Other” or Be Home Before Dark: Reading and Writing about Family) • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>Choose (8-9 credits) from the SOCY-200 series, SOCY-125, or UBST-101.</p> <p>Students who plan to pursue a Sociology major are strongly recommended to take the following:</p> <p>1) SOCY-220 Urban Sociology, SOCY-230 Sociology of the Family, or SOCY-275 Media and Society and 2) SOCY-240 Racial and Ethnic Relations or SOCY-250 Sociology of Gender</p> |
| | <p>Urban Studies – To complete a concentration in Urban Studies, students must complete the major requirements below:</p> <ul style="list-style-type: none"> • Two Foreign Language courses (<i>two sequential courses are required, level and sequence to be determined by department placement</i>) • HI-110, HI-111, or HI-112 (<i>if already taken in common core, one course from HI-100 series is required; if two History courses have been taken in common core, one additional course from Urban Studies Concentration</i>) • SP-211 • One English course from EN-200, EN-300, or EN-400 series (recommended: EN-219 Reading and Writing about New York; EN-224, 225 Special Topics in Writing as Craft: The Immigrant Experience) • One science lab. course (students who take STEM variant in common core have satisfied this requirement) <p>Choose (8-9 credits) from the Urban Studies Concentration: HI-125, HI-129, HI-136; SS-320, SOCY-125, SOCY-240, SS-360, UBST-101, UBST-102, UBST-202; CRIM-101; EN-219, EN-224, EN-225</p> |

Liberal Arts and Sciences (Mathematics and Science) – A.S. – Curricular Revision

| From: | Credits |
|--|--------------|
| General Education* | |
| English Composition I, II (EN 101 and EN 102) | 6 |
| Foreign Language and/or Liberal Arts and Sciences | 6-8 |
| Mathematics | 3-4 |
| Laboratory Science | 4-5 |
| History (one course selected from HI-110, 111, or 112) | 3 |
| Speech Communication (SP-211) | 3 |
| Social Science, History, or Humanities elective | 3 |
| Social Science | 3 |
| Health Education (HE-101 or 102) | 1-2 |
| One course in Physical Education from PE-400 or 500 series or one course in Dance from DAN-100 series | 1 |
| General Education Subtotal | 33-38 |
| Major | 20-25 |
| Elective(s) – free electives | 2 |
| Current Total | 60 |
| <p>* 50% of credits toward degree must be in liberal arts and sciences.</p> <p>** Students who enroll in the LS1 select courses in the concentration based on consultations with an advisor in the appropriate department: Biological Sciences and Geology, Chemistry, Mathematics and Computer Science, or Physics.</p> | |

| To: | Credits |
|--|---------|
| Common Core | |
| REQUIRED CORE: I. A. English Composition I, II (EN 101 or 103 and EN 102) | 6 |
| REQUIRED CORE: I. B. Mathematical and Quantitative Reasoning (MA 440 or 441 recommended; if 4-credit course; see note under Subtotal below.) | 3(-4) |
| REQUIRED CORE: I. C. Life and Physical Sciences (BI 201, CH 151, PH 301, or PH 411 recommended; if 4-credit course; see note under Subtotal below.) | 3(-4) |
| FLEXIBLE CORE: II. A. World Cultures and Global Issues (Select one course from II.A) | 3 |
| FLEXIBLE CORE: II. B. U.S. Experience in Its Diversity (Select one course from II.B) | 3 |
| FLEXIBLE CORE: II. C. Creative Expression (Select one course from II.C) | 3 |
| FLEXIBLE CORE: II. D. Individual and Society (Select one course from II.D) | 3 |
| FLEXIBLE CORE: II. E. Scientific World (BI 201, CH 151, PH 301, or PH 411 recommended; if 4-credit course; see note under Subtotal below.) | 3(-4) |
| FLEXIBLE CORE: II. A, B, C, D or E (STEM variant selection recommended; if 4-credit course; see note under Subtotal below.) | 3(-4) |
| Subtotal (Credits beyond 30 in the Common Core will be counted toward the Liberal Arts & Sciences component of the Major and be accounted for in the Concentration.) | 30(-34) |
| Major | |
| MA 441 (or higher level) | 4 |
| Select one course from BI 202, CH 152, PH 302, or PH 412 and PH 413 (a student may not receive credit for both PH302 and the combination of PH412 and PH413) | 8-11 |
| Select a second course from BI 202, CH 152, CS 201, CS203, MA442 (or higher level), PH 302, or PH 412 and PH 413 (a student may not receive credit for both PH302 and the combination of PH412 and PH413) | |
| Concentration** (STEM credits beyond 30 in the Common Core will count toward the Concentration.) | 4-7 |
| Subtotal | 19 |
| Additional Major Requirements | |
| Speech Communication (SP 211) (if not taken in common core, otherwise additional course in concentration) | 3 |
| Social Science (if not taken in common core, otherwise additional course in concentration) | 3 |
| History (if not taken in common core, otherwise additional course in concentration) | 3 |
| HE 101 (HE-102 may be substituted for HE-101) | 1 |

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|--|-----------|
| One course in Physical Education from PE-400 or 500 series or one course from DAN-100 series | 1 |
| Subtotal | 11 |
| Total | 60 |

Visual and Performing Arts – A.A. – Curricular Revision

| From: | Credits |
|---|-----------|
| General Education | |
| English Composition I, II (EN 101, 102) | 6 |
| Foreign Language and/or Liberal Arts and Sciences (at least one FL course required) | 6-8 |
| Mathematics (MA-120, 301, 303, 321, 336, 440, or 441) | 3-4 |
| Laboratory Science | 4-5 |
| Health Education (HE-101 or 102) | 1-2 |
| History (one course selected from HI-110, 111, or 112) | 3 |
| One course in Physical Education or Dance from the PE-400, 500, or 600 series | 1 |
| Speech Communication (SP-211) | 3 |
| Art (AR- 300 series) or Dance (PE-711) or Music (MU- 100 series) or Speech Communication and Theatre Arts (SP-471, 472, or TH-111 (formerly SP-532) (Student must complete in an area different from concentration) | 3 |
| Social Sciences elective | 3 |
| General Education Subtotal | 33-38 |
| Major | |
| CONCENTRATION IN ART AND DESIGN, DANCE, MUSIC, THEATRE ARTS, OR INTERDISCIPLINARY PROGRAM | 20-26 |
| Elective(s) | |
| Free electives | 1-2 |
| Current Total and Subtotals | 60 |

| To: | Credits |
|---|---------------|
| General Education - Common Core | |
| REQUIRED CORE: I. A. English Composition I, II (EN 101, 102) | 6 |
| REQUIRED CORE: I. B. Mathematical and Quantitative Reasoning (Select one course from I.B) | 3 |
| REQUIRED CORE: I. C. Life and Physical Sciences (Select one course from I.C) | 3 |
| FLEXIBLE CORE: II. A. World Cultures and Global Issues (Select one course from II.A) | 3 |
| FLEXIBLE CORE: II. B. U.S. Experience in Its Diversity (Select one course from II.B) | 3 |
| FLEXIBLE CORE: II. C. Creative Expression (Select one course from II.C) Advisory note: select from an area different from the concentration | 3 |
| FLEXIBLE CORE: II. D. Individual and Society (Select one course from II.D) | 3 |
| FLEXIBLE CORE: II. E. Scientific World (Select one course from II.E) | 3 |
| FLEXIBLE CORE: II. A, B, C, D or E. (Select one additional course from any one of the flexible core categories) Advisory Note: select course from II.C, Creative Expression, in the concentration discipline (e.g., AR-300 series or DAN-111 or MU-110 or 120 or TH-111) | 3 |
| Subtotal | 30-31* |
| <i>*The credit range accounts for students who take a STEM variant in I.C.</i> | |
| Major | |
| Speech Communication (SP-211) (if not taken in the Common Core; otherwise, take a Foreign Language course OR HI-110, 111, or 112 OR a Social Sciences course) | 3 |
| Health Education (HE-101 or HE-102) | 1-2 |
| One course in Physical Education or Dance from the PE-400 or 500 series or DAN-100 series | 1 |
| Major elective: science laboratory (students who take a STEM variant in I.C. have met this requirement) | 0-1 |
| CONCENTRATION IN ART & DESIGN, DANCE, MUSIC, THEATRE ARTS OR INTERDISCIPLINARY PROGRAM | 21-23 |
| Subtotal | 26-30 |
| Elective(s) | |
| Free electives | 0-3 |
| Current Total and Subtotals | 60 |

OCC COMMON CORE: ALL COURSES ARE APPROVED BY SENATE AND REVIEW COMMITTEES UNLESS OTHERWISE NOTED (as of 2/23/13)

Required Core A – Composition (I.A)

| | |
|---------|---|
| EN-101 | English Composition I |
| EN-102 | English Composition II: Introduction to Literature |
| *EN 103 | Writing for New Media - <i>returned for revision, revised and resubmitted</i> |

Required Core B – Mathematics and Quantitative Reasoning (I.B)

| <u>Non-STEM</u> | | <u>STEM</u> | |
|------------------------|---|--------------------|---|
| MA 301 | Foundations of Mathematics | MA 114 | College Algebra & Trigonometry for Technical Students |
| *MA 315 | Topics in Mathematics (<i>will need additional revision after most recent review</i>) | MA 119 | College Algebra |
| | | MA 127 | Technical Mathematics II for Verizon Students |
| MA 321 | Mathematics in Contemporary Society | MA 128 | Calculus for Technical & Business Students |
| | | MA 260 | Pre-calculus & Elements of Calculus for Business Students |
| | | MA 303 | Number Systems |
| | | MA 336 | Computer-assisted Statistics |
| | | MA 440 | Pre-calculus Mathematics |
| | | MA 441 | Analytical Geometry & Calculus I |
| | | MA 442 | Analytical Geometry & Calculus II |
| | | | |

Required Core C – Life and Physical Sciences (I.C)

| <u>Non-STEM</u> | | <u>STEM</u> | |
|------------------------|---|--------------------|---------------------------------|
| | | BI 140 | Principles of Biology |
| BI 130 | Foundations of Biology | BI 201 | General Biology I |
| BI 170 | Plants and People | BI 301 | Anatomy & Physiology I |
| CH 101 | Living in a Chemical World | BI 520 | Public Health Sciences |
| CH110 | Chemistry and the Environment | CH 106 | Chemistry in the Arts) |
| CH 120 | Fundamentals of Chemistry | CH 127 | Introductory College Chemistry |
| ET 841 | The Science of Energy & Power in the Modern World | CH 128 | Introductory Organic Chemistry |
| PH 111 | Space, Astronomy and our Universe | CH 151 | General Chemistry I |
| | | CH 152 | General Chemistry II |
| | | CH 251 | Organic Chemistry I |
| | | CH 252 | Organic Chemistry II |
| | | GE 101 | Physical Geology |
| | | PH 101 | Principles of Physics |
| | | PH 140 | Acoustics: The Physics of Sound |
| | | PH 201 | General Physics I |
| | | PH 202 | General Physics II |
| | | PH 301 | College Physics I |
| | | PH 302 | College Physics II |
| | | PH 411 | Calculus Physics I |
| | | PH 412 | Calculus Physics II |

Note: BI 110 was revised and submitted for IIE

Flexible Core A - World and Global Cultures (II.A)

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|--|--|
| ANTH 130 | Cultures and Peoples of Asia |
| ANTH 150 | Peoples and Cultures of the Caribbean |
| ECON 235 | International Economics |
| HI 110 | Introduction to Ancient Civilization |
| HI 111 | Introduction to Medieval and Early Modern Western Civilization |
| HI 112 | Introduction to Modern Western Civilization |
| HI 113 | Europe and the World Since 1945 |
| HI 118 | Ancient Greek History |
| HI 133 | Introduction to Modern East Asian Civilizations |
| HI 140 | Latin American History I: Ancient Times to Independence (1500 BC - 1825) |
| HI 141 | Latin American History II: Independence to the Present |
| HI 144 | Modern Economic History |
| HI 152 | Women in World History: From Prehistoric Times to the Present |
| HI 153 | War and Warfare in Western History: From Gunpowder to Desert Storm |
| HI 181 | History of the Second World War |
| HI 191 | History of Genocide in the 20 th Century |
| HI 195 | Judaism, Christianity, and Islam |
| LC 311 | Readings in Contemporary Chinese Literature I |
| LC 312 | Readings in Contemporary Chinese Literature II |
| LC 321 | Business Chinese I |
| LF 213 | Intermediate French I |
| LF 214 | Intermediate French II |
| LF 401 | French and Francophone Cultures Today |
| LG 213 | Intermediate German I |
| LG 401 | The Culture of German-Speaking Countries Today |
| LH 213 | Intermediate Hebrew I |
| LI 213 | Intermediate Italian I |
| LS 213 | Intermediate Spanish I |
| LS 214 | Intermediate Spanish II |
| LS 221 | Workshop in Reading and Writing for Spanish Heritage Speakers I |
| LS 222 | Workshop in Reading and Writing for Spanish Heritage Speakers II |
| LS 223 | Workshop in Reading and Writing for Spanish Heritage Speakers III |
| LS 402 | Latin American and Caribbean Cultures Today |
| <i>Revised and resubmitted:</i> | |
| PLSC 140 | Comparative Political Systems |
| PLSC 170 | War, Revolution, and Terrorism |
| | |

Flexible Core B – US and its Diversity (II.B)

| | |
|---|---|
| ANTH 140 | North American Indians |
| HI 125 | Immigration and Ethnic Groups in American History |
| HI 126 | Women in America |
| HI 127 | Growth of American Civilization I: Colonial Period -- Reconstruction |
| HI 128 | Growth of American Civilization II: Reconstruction to the Present |
| HI 129 | Recent American Civilization |
| HI 135 | History of New York State |
| HI 136 | African-American History |
| PLSC 101 | American Government and Politics |
| SP 211 | Speech Communication |
| <i>Pending Review:</i> | |
| HE 114 | Foundations of Health Promotion and Disease Prevention |
| <i>Awaiting revision for resubmission:</i> | |
| PLSC 180 | American Foreign Policy (<i>awaiting revision for resubmission</i>) |

Flexible Core C – Creative Expression (II.C)

| | |
|---------|--|
| AR 310 | Introductory Survey of Art |
| AR 311 | History of Art I |
| AR 312 | History of Art II |
| AR 315 | Modern Art |
| AR 316 | American Art |
| AR 317 | History of Photography |
| AR 320 | Contemporary Art |
| AR 325 | History of Graphic Design |
| AR 326 | History of Asian Art |
| AR 328 | History of African Arts |
| DAN 111 | Introduction to the Art of Dance |
| MU 110 | Introduction to Music |
| MU 120 | Survey of Western Music |
| MU 140 | Twentieth-Century Music |
| MU 141 | Jazz: An Introduction |
| MU 180 | Music Around the World |
| SP 274 | Introduction to Electronic Media |
| SP 275 | Media Criticism |
| SP 321 | Oral Performance for the Actor and Speaker |
| SP 471 | American Film History I |
| SP 472 | American Film History II |
| TH 111 | Introduction to Theatre |
| TH 120 | Acting I |

Flexible Core D – Individual and Society (II.D)

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|---|---|
| ANTH 101 | Anthropology |
| CRIM 101 | Introduction to the American Criminal Justice System |
| CRIM 102 | Criminology |
| ECON 101# | Intro. to Macroeconomics# <i>additional revision required</i> |
| ECON 102 | Intro to Microeconomics |
| ECON 150 | Labor and Management |
| ECON 160 | Contemporary Economics Issues |
| HI 165 | The European Renaissance |
| HI 185 | The Holocaust |
| PHIL 101 | Introduction to Philosophy |
| PHIL 120 | Philosophy of Religion |
| PHIL 130 | Ethics: Theories of the Good Life |
| PHIL 140 | Medical Ethics |
| PHIL 145 | Computers and Ethics |
| PHIL 165 | American Philosophy |
| PHIL 180 | Perspectives on Death and Dying |
| SOCY 101 | Sociology |
| SOCY 125 | Sociology and the Arts |
| SOCY 185 | Introduction to Social Work |
| SOCY 230 | Sociology of the Family |
| SOCY 240 | Racial and Ethnic Relations |
| SOCY 250 | Sociology of Gender |
| SOCY 275 | Media and Society |
| | |
| <i>Sent back for revision but not being resubmitted, as course not offered in recent years:</i> | |
| PHIL 135 | Business Ethics |
| PHIL 160 | Philosophy of Science |

Rejected for this category:

- **LS 402, LG 401, LF 401, LS 312, LS 315 (LF 401, LG 401, and LS 402 approved for II.A.)**
- **ET 821, ET 830, ET 843 (revised and submitted to IIE)**
- **HE 111**
- **INTE 212 Critical Thinking About Popular Culture Figures from 1950s-Present Through Library and Information Studies : Researching the Individual and American Society (revised, at Curriculum Committee)**

Flexible Core E – Scientific World (II.E)

| <u>Non-STEM</u> | | <u>STEM</u> | |
|---|--|--------------------|--|
| BI 115 | Intro. to Biology for Science Majors | BI 140 | Principles of Biology |
| BI 120 | Evolution and Man | BI 201 | General Biology I |
| CS 100 | Intro. to Computers and Program. | BI 301 | Anatomy & Physiology I |
| CH 103 | Chemistry and the Arts | BI 520 | Public Health Sciences |
| ET 570 | Creating Smart Phone Apps | CH 127 | Introductory College Chemistry |
| ET 575 | Intro to C++ Prog. Design & Implem | CH 128 | Introductory Organic Chemistry |
| ET 880 | Science & Tech. in Modern Life | CH 151 | General Chemistry I |
| PSYC 101 | Psychology | CH 152 | General Chemistry II |
| PSYC 215 | Child Development | CH 251 | Organic Chemistry I |
| PSYC 220 | Human Growth and Development | CH 252 | Organic Chemistry II |
| PSYC 230 | Abnormal Psychology | CS 101 | Algorithmic Problem Solving |
| PSYC 250 | Personality | CS 201 | Computer Org. & Assembly Lang. |
| PSYC 255 | The Psychology of Women | CS 203 | Algorithmic Problem Solving II |
| PSYC 260 | Psych. Disorders of Childhood | GE 101 | Physical Geology |
| PSYC 270 | The Psychology of Aging | MA 443 | Analytical Geometry & Calculus III |
| PSYC 290 | States of Consciousness | MA 451 | Differential Equations |
| PH 120 | Introduction to Meteorology | MA 461 | Linear Algebra |
| PH 123 | Natural Hazards | PH 101 | Principles of Physics |
| PH 124 | Global Warming | | |
| PH 129 | How Things Work | PH 140 | Acoustics: The Physics of Sound |
| <i>Pending Review:</i> | | PH 201 | General Physics I |
| BI-110 | Fundamentals of life Sciences | PH 202 | General Physics II |
| ET 830 | Technology and Society | PH 240 | Computerized Physical Measurement Using Graphical Programming |
| ET 821 | Computers in the Modern Society | | |
| ET 843 | The Role of Energy in Society | | |
| GE 105 | Gems and Semi-Precious Stones | PH 301 | College Physics I |
| HE103 | Fundamentals of Human Nutrition (rev.) | PH 302 | College Physics II |
| HE105 | Human Sexuality | PH 411 | Calculus Physics I |
| HE 107 | Mental Health: Understanding Your Behavior | PH 412 | Calculus Physics II |
| HE108 | Health and Physical Fitness | PH 413 | Calculus Physics III |
| PH 125 | Energy and Environment | PH 416 | Thermodynamics |
| PH 126 | Cause and Effect Analysis | PH 440 | Modern Physics |
| PH 127 | Scientific Measurement in Medicine and Health | | |
| PH 128 | Science of Dance, Music and Aesthetics | | |
| PH 130 | Natural Science in Finance | | |
| PH 131 | Scientific Explorations of Science Fiction Literature | | |
| PE 825 | Introduction to Exercise Science | | |
| <i>Being revised for submission to this category:</i> | | | |
| GE 100 | Fundamentals of Earth Science | | |
| GE 125 | Earth Science | | |
| <i>Returned for revision, will not be resubmitted:</i> | | | |
| BI 357 | Bioinformatics/Computational Bio. | | |
| BI 455 | Immune System in Health & Disease | | |
| BI 510 | Pharmacology | | |

Rejected for this category:

- ***ECON 101 - Macroeconomics, and ECON 102 Microeconomics (revised and submitted to II.D.);***
- ***PSYC 225- Psychology of Personal Adjustment and PHIL 150 – Logic: The Art of Thinking (these will not be resubmitted at this time.)***