

TO: Faculty Senate
FROM: Mark Jackson, Chair of the University Curriculum Committee
Date: 12/10/2012

On December 5, the Curriculum Committee met and approved the following items. On behalf of the Curriculum Committee, I submit these items for the approval of the Faculty Senate at its meeting on Monday, December 10.

Minor Changes

A.1	Biomolecular science
	<u>New Course Description</u> BMS 491 :Advanced Independent Research in BMS (1-3) credits Advanced laboratory research under the guidance of one or more department members. Continuation of research begun in BMS 390. Written report or presentation, portfolio review, and attendance at research seminars required. May be repeated. A maximum of five credits may be counted in the major.
A.2	Chemistry
	CHEM 161 General Chemistry 3cr Prereq.: MATH 101 or math placement exam. Emphasizes relationships of basic chemical principles and theories to properties of substances, their reactivity and uses. Contributions to the quality of life are introduced. Three hours of lecture per week. CSUS Common Course. Study Area IV Change title to Chem 161 General Chemistry (drop the "I"), remove the phrase "Intended for science and engineering students" CHEM 162 General Chemistry Laboratory 1cr Prereq.: CHEM 161 (may be taken concurrently). Basic techniques of chemical synthesis and analysis. One three-hour laboratory per week. CSUS Common Course. Study Area IV Change title to Chem 162 General Chemistry Laboratory (drop the "I")

I. Items Approved by Curriculum Committee

Biology													
1.1	Program Revision: Bio 107 Plants and Civilization												
	<p>Reinstate course as follows:</p> <p>BIO 107 Plants and Civilization 3</p> <p>Plant growth and reproduction, and the economic and social importance of plants. No credit given toward biology majors or minors. Two lectures and one two-hour lab per week. Study area IV.</p>												
Bimolecular Science													
2.1	<p>Course Addition: BMS 501 Fundamentals of Biomolecular Science 2</p> <p>BMS 501 Fundamentals of Biomolecular Science 3 Admission to MA in BMS program. Examination of fundamental concepts, skills, and research, with an emphasis on their application of these within the fields of Cell, Development, Molecular and Physiological sciences.</p>												
2.2	<p>Program revision MASTER OF ARTS IN BIOMOLECULAR SCIENCES</p> <p>Change core course component from:</p> <table> <tr> <td>Course Component (24-27 credits)</td><td></td></tr> <tr> <td>BMS 500 Seminar in BMS</td><td>1</td></tr> <tr> <td>BMS 540 Advanced Topics in BMS</td><td>1-4</td></tr> <tr> <td>BMS 572 Laboratory Rotation in Cell and Molecular Biology</td><td>1</td></tr> </table> <p>To:</p> <p>TOTAL CREDITS FOR PROGRAM IS 30 Credits</p> <p>Course Component (24-27 credits)</p> <table> <tr> <td>BMS 501 Fundamentals in BMS</td><td>2</td></tr> <tr> <td>BMS 540 Advanced Topics in BMS</td><td>3</td></tr> </table> <p><i>Note: BMS 500 and 572 will become electives</i></p>	Course Component (24-27 credits)		BMS 500 Seminar in BMS	1	BMS 540 Advanced Topics in BMS	1-4	BMS 572 Laboratory Rotation in Cell and Molecular Biology	1	BMS 501 Fundamentals in BMS	2	BMS 540 Advanced Topics in BMS	3
Course Component (24-27 credits)													
BMS 500 Seminar in BMS	1												
BMS 540 Advanced Topics in BMS	1-4												
BMS 572 Laboratory Rotation in Cell and Molecular Biology	1												
BMS 501 Fundamentals in BMS	2												
BMS 540 Advanced Topics in BMS	3												
Chemistry													

3.1	Course Deletion: Chem 102 Chemistry of Nutrition
3.2	Course Deletion Chem 111 Introductory Chemistry
3.3	Course Deletion Chem 116 Introduction to Forensic Chemistry
3.4	Course Deletion Chem 150 Chemistry of Allied Health I
3.5	Course Deletion Chem 152 Chemistry of Allied Health II
3.6	Course Deletion Chem 163 General Chemistry II
3.7	Course Deletion Chem 164 General Chemistry II Laboratory
3.8	Course Deletion Chem 250 Basic Organic and Biochemistry
3.9	Course Deletion Chem 301 Analytical Chemistry
3.10	Course Deletion Chem 461 Descriptive Inorganic Chemistry
3.11	<p>Course Addition Chem 200 Foundations of Analytical Chemistry 3</p> <p>Prereq: CHEM 161 and CHEM 162. Theory of gravimetric and volumetric quantitative analysis, introduction to colorimetric analysis, and methods of separation. Three hours of lecture per week</p>
3.12	<p>Course Addition Chem 201 Foundations of Analytical Chemistry Laboratory 1</p> <p>Prereq: CHEM 161 and CHEM 162 and CHEM 200 or CHEM 260 (May be taken concurrently). Practice of gravimetric and volumetric quantitative analysis, introduction to colorimetric analysis, equilibrium, acid-base chemistry, and methods of separation. Three hours of laboratory per week.</p>
3.13	<p>Course Addition Chem 260 Foundations of Inorganic Chemistry 3</p> <p>CHEM 260 Foundations of Inorganic Chemistry 3. Prereq: CHEM 161 and CHEM 162. Survey of the periodic table with special emphasis on bonding modes and</p>

	mechanisms, reactivity, and properties of inorganic compounds. Topics from CHEM 161 as applied to inorganic reactions will be explored.
3.14	<p>Course Revision Chem 210 Organic Chemistry I</p> <p>Revise course to</p> <p>Chem 210 Foundations of Organic Chemistry 3. Prereq: CHEM 161 and CHEM 162. Structure, nomenclature, and general reactivity of the principal classes of carbon compounds will be introduced. Spectroscopy and biologically relevant molecules are also considered. Three hours of lecture per week.</p>
3.15	<p>Course Revision Chem 211 Foundations of Organic Chemistry Laboratory</p> <p>CHEM 211 Foundations of Organic Chemistry Laboratory 1. Prereq: CHEM 161 and CHEM 162 and CHEM 210 (may be taken concurrently). Basic techniques used in organic synthesis. Determination of physical constants, separation techniques, and spectroscopy will be introduced. Three hours of laboratory per week.</p>
3.16	<p>Course Revision Chem 212 Organic Chemistry II</p> <p>CHEM 212 Organic Synthesis 3. Prereqs: CHEM 210 and CHEM 211. Study of the energies, rates, and mechanisms of organic reactions. In-depth investigation of functional group reactivity. Three hours of lecture per week. spring/summer</p>
3.17	<p>Course Revision Chem 213 Organic Chemistry II Laboratory</p> <p>CHEM 213 Organic Synthesis Laboratory 1. Prereqs: CHEM 210 and CHEM 211 and CHEM 212 (may be taken concurrently). Synthesis and reactions of organic functional groups will be performed. Spectral analysis of organic compounds also emphasized. Three hours of laboratory per week</p>
3.18	<p>Course Revision Chem 321 Physical Chemistry of Thermodynamics & Kinetics</p> <p>Changes to pre-reqs reflect deletion of CHEM 301 and addition of CHEM 200</p>
3.19	<p>Course Revision Chem 322 Physical Chemistry of Quantum & Statistical Mechanics</p> <p>Changes to pre-reqs reflect deletion of CHEM 301 and addition of CHEM 260</p>

3.20	Course Revision Chem 323 Physical Chemistry Laboratory Changes to pre-reqs reflect deletion of CHEM 301 and addition of CHEM 201
3.21	Course Revision Chem 354 Foundations of Biochemistry Change title from “biochemistry” to “foundations in biochemistry” Change prereq from Chem 212 to Chem 210
3.22	Course Revision Chem 402 Instrumental Methods in Analytical Chemistry Changes to prereqs reflect deletion of CHEM 301 and addition of CHEM 200/201
3.24	Course Revision Chem 460 Inorganic Symmetry & Spectroscopy Change prereq to CHEM 260 and CHEM 320 or CHEM 321 or CHEM 322).
3.25	Course Revision Chem 462 Inorganic Chemistry Laboratory Change prereq to Chem 260 and Chem 316
3.26	Program Revision Major in Chemistry, BS Major in Chemistry, BS (General Program) Chemistry Core (26 credits) CHEM 161 General Chemistry 3 CHEM 162 General Chemistry Lab 1 CHEM 200 Foundations of Analytical Chemistry 3 CHEM 201 Foundations of Analytical Chemistry Lab 1 CHEM 210 Foundations of Organic Chemistry 3 CHEM 211 Foundations of Organic Chemistry Lab 1 CHEM 212 Organic Synthesis 3 CHEM 213 Organic Synthesis Lab 1 CHEM 238 Introduction to Research 1 CHEM 260 Foundations of Inorganic Chemistry 3 CHEM 316 Spectrometric Identification of Organic Compounds 3 CHEM 432 Chemistry Seminar 2 CHEM 438 Undergraduate Research 1 BS (General Program)

	<p>Chemistry core plus 10 credits selected from the following.</p> <p>Choose 3 credits from: CHEM 354 Foundations of Biochemistry OR CHEM 406 Environmental Chemistry OR CHEM 485 Topics in Chemistry</p> <p>Choose 3 credits from: CHEM 320 Biophysical Chemistry OR Chem 321 Physical Chemistry of Thermodynamics & Kinetics OR CHEM 322 Physical Chemistry of Quantum & Statistical Mechanics</p> <p>Choose 4 credits from: CHEM 402 Instrumental Methods in Analytical Chemistry OR Choose 3 credits from: CHEM 460 Inorganic Symmetry & Spectroscopy WITH 1 additional credit from: Chem 323 Physical Chemistry Lab OR CHEM 455 Biochemistry Lab OR CHEM 462 Inorganic Chemistry Lab</p> <p>Related Requirements (16 credits): PHYS 121 OR 125 General OR University Physics I 4 PHYS 122 OR 126 General OR University Physics II 4 MATH 119 Pre-Calculus with Trigonometry 4 MATH 152 Calculus I 4 A minor is not required for this major.</p> <p>BS in Chemistry (American Chemical Society Certified) This program is designed for students wishing to go on to graduate-level studies in chemistry.</p> <p>Chemistry Core plus 19 credits as follows:</p> <p>CHEM 321 Physical Chemistry of Thermodynamics & Kinetics 3 CHEM 322 Physical Chemistry of Quantum & Statistical Mechanics 3 CHEM 323 Physical Chemistry Lab 1 CHEM 354 Foundations of Biochemistry 3</p>
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	<p>CHEM 402 Instrumental Methods in Analytical Chemistry 4 CHEM 455 Biochemistry Lab 1 CHEM 460 Inorganic Symmetry & Spectroscopy 3 CHEM 462 Inorganic Chemistry Lab 1</p> <p>Related Requirements (19-20 credits) PHYS 125 University Physics I 4 PHYS 126 University Physics II 4 MATH 152 Calculus I 4 MATH 221 Calculus II 4 The student must also complete one additional course from the following approved list: MATH 218 Discrete Mathematics 4 MATH 222 Calculus III 4 MATH 226 Linear Algebra and Probability for Engineers 4 MATH 228 Introduction to Linear Algebra 4 CS 151 Computer Science I 3</p> <p>A minor is not required for this major.</p>
3.27	<p>Program Revision Major in Biochemistry, BS</p> <p>Major in Biochemistry, BS The BS program in biochemistry provides a strong foundation in both molecular biology and chemistry and is based on faculty, facilities, and research resources in both the Department of Biomolecular Sciences and the Department of Chemistry and Biochemistry. In addition to in-class laboratory instruction, this interdepartmental program emphasizes independent student research carried out under the guidance of a faculty member from either department. This program is designed to prepare students for careers or advanced study in molecular biology, biochemistry, or health-related fields.</p> <p>Major in Biochemistry, BS (Non-teaching, 55-57 credits)</p> <p>Biochemistry Core Requirements (36 credits) BMS 102 Introduction to Biomolecular Science 3 BMS 103 Introduction to Biomolecular Science Laboratory 1 BMS 190 Introduction to Research I 0.5 BMS 201 Principles of Cell and Molecular Biology 4 BMS 290 Introduction to Research II 0.5 CHEM 161 General Chemistry 3 CHEM 162 General Chemistry Laboratory 1 CHEM 200 Foundations of Analytical Chemistry 3 CHEM 201 Foundations of Analytical Chemistry Lab 1 CHEM 210 Foundations of Organic Chemistry 3 CHEM 211 Foundations of Organic Chemistry Lab 1 CHEM 212 Organic Synthesis 3</p>

	<p>CHEM 213 Organic Synthesis Lab 1 CHEM 260 Foundations of Inorganic Chemistry 3 CHEM 316 Spectrometric Identification of Organic Compounds 3 CHEM 320 Biophysical Chemistry 3 CHEM 432 Chemistry Seminar 2</p> <p>Directed Electives (10-12 credits)</p> <p>One course chosen from: BMS 306 Genetics 4 BMS 307 Genomics 4 BMS 311 Cell Biology 4 BMS 316 Microbiology 4 and 6-8 additional credits chosen from the 300-level BMS courses listed above or from the following: BMS 415 Advanced Exploration in Cell, Molecular, and Physiological Biology 3 BMS 490 Topics in Biomolecular Sciences 3 BMS 495 Capstone in Molecular Biology 4 CHEM 456 Toxicology 3</p> <p>Research Requirements (2 credits) Two credits of research chosen from any of BMS 390, 491, CHEM 238, or 438 (although a two-semester sequence of BMS 390 and 491, or CHEM 238 and 438 is strongly encouraged). BMS 391 (Internship in biomolecular sciences, 1-3 credits) may be used as a substitution for part or all of the independent research requirement.</p> <p>Capstone Courses (7 credits) CHEM 458 Advanced Biochemistry 3 CHEM 455 Biochemistry/Laboratory 1 and one of the following courses: BMS 496 Capstone in Biosynthesis, Bioenergetics, and Metabolic Regulation 3 OR CHEM 354 Foundations of Biochemistry 3</p> <p>Related Requirements (12 credits) MATH 152 Calculus I 4 PHYS 121 OR 125 General OR University Physics I 4 PHYS 122 OR 126 General OR University Physics II 4</p> <p>Students must also maintain a student portfolio (see below). These related requirement courses may also be counted to fulfill appropriate portions of the student's general education program. No minor is required for this major.</p> <p>Portfolio Requirement The portfolio requirement will be formally introduced to students during the BMS 190 and 290 introductory courses. Minimally, the student portfolio must include a current</p>
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resume, a current Student Graduation Evaluation or transcript, a planned program of academic study, a narrative describing the student's goals for undergraduate education and graduate educational or career plans, abstracts of all completed independent study projects, and writing samples from CHEM 432. To fulfill the portfolio requirement, the student portfolio must be reviewed with one or more faculty members:

As a course requirement in BMS 190 and 290;

As a required component of independent student research projects; and

Prior to graduation, as evidenced by submission of a Portfolio Requirement Completed form to the chair of the Department of Biomolecular Sciences or Chemistry.

500-Level Course Options

Undergraduate students who use the form, Enrollment in 500 Level Courses by Undergraduates, and who have at least 90 credits and a cumulative GPA of 3.00 or higher may (with the approval of the advisor, instructor, appropriate department chair and dean, School of Graduate Studies, and with appropriate prerequisites) substitute either of the following 500-level BMS courses for BMS courses listed in the directed elective portion of the major program, and the following CHEM course in place of one of the 400-level CHEM courses listed in the directed elective portion of the major program:

BMS 562 Developmental Biology 3

BMS 570 Advanced Genetics 3

CHEM 551 Topics in Biochemistry 3

BS in Biochemistry (American Chemical Society Certified) (57 credits)

Biochemistry Core Requirements (36 credits)

BMS 102 Introduction to Biomolecular Science 3

BMS 103 Introduction to Biomolecular Science Laboratory 1

BMS 190 Introduction to Research I 0.5

BMS 201 Principles of Cell and Molecular Biology 4

BMS 290 Introduction to Research II 0.5

CHEM 161 General Chemistry 3

CHEM 162 General Chemistry Laboratory 1

CHEM 200 Foundations of Analytical Chemistry 3

CHEM 201 Foundations of Analytical Chemistry Lab 1

CHEM 210 Foundations of Organic Chemistry 3

CHEM 211 Foundations of Organic Chemistry Lab 1

CHEM 212 Organic Synthesis 3

CHEM 213 Organic Synthesis Lab 1

CHEM 260 Foundations of Inorganic Chemistry 3

CHEM 316 Spectrometric Identification of Organic Compounds 3

CHEM 320 Biophysical Chemistry 3

CHEM 432 Chemistry Seminar 2

	<p>Biochemistry Core plus an additional 8 credits in Chemistry</p> <p>CHEM 322 Physical Chemistry of Quantum & Statistical Mechanics 3</p> <p>CHEM 323 Physical Chemistry Lab 1</p> <p>CHEM 402 Instrumental Methods in Analytical Chemistry 4</p> <p>Directed Electives (4 credits)</p> <p>One course chosen from:</p> <p>BMS 306 Genetics 4</p> <p>BMS 307 Genomics 4</p> <p>BMS 311 Cell Biology 4</p> <p>BMS 316 Microbiology 4</p> <p>Research Requirements (2 credits)</p> <p>CHEM 238* Introduction to Research 1</p> <p>CHEM 438** Undergraduate Research 1</p> <p>* BMS 390 may be substituted</p> <p>**BMS 491 may be substituted</p> <p>Capstone Courses (7 credits)</p> <p>CHEM 354 Foundations of Biochemistry 3</p> <p>CHEM 458 Advanced Biochemistry 3</p> <p>CHEM 455 Biochemistry/Laboratory 1</p> <p>Related Requirements (16 credits)</p> <p>MATH 152 Calculus I 4</p> <p>MATH 221 Calculus II 4</p> <p>PHYS 125 University Physics I 4</p> <p>PHYS 126 University Physics II 4</p> <p>Students must also maintain a student portfolio (see below). These related requirement courses may also be counted to fulfill appropriate portions of the student's general education program.</p> <p>No minor is required for this major.</p> <p>Portfolio Requirement</p> <p>The portfolio requirement will be formally introduced to students during the BMS 190 and 290 introductory courses. Minimally, the student portfolio must include a current resume, a current Student Graduation Evaluation or transcript, a planned program of academic study, a narrative describing the student's goals for undergraduate education and graduate educational or career plans, abstracts of all completed independent study projects, and writing samples from CHEM 432. To fulfill the portfolio requirement, the student portfolio must be reviewed with one or more faculty members:</p> <p>As a course requirement in BMS 190 and 290;</p> <p>As a required component of independent student research projects; and</p>
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	<p>Prior to graduation, as evidenced by submission of a Portfolio Requirement Completed form to the chair of the Department of Chemistry.</p> <p>500-Level Course Options</p> <p>Undergraduate students who use the form, Enrollment in 500 Level Courses by Undergraduates, and who have at least 90 credits and a cumulative GPA of 3.00 or higher may (with the approval of the advisor, instructor, appropriate department chair and dean, School of Graduate Studies, and with appropriate prerequisites) substitute either of the following 500-level BMS courses for BMS courses listed in the directed elective portion of the major program, and the following CHEM course in place of one of the 400-level CHEM courses listed in the directed elective portion of the major program:</p> <p>BMS 562 Developmental Biology 3 BMS 570 Advanced Genetics 3 CHEM 551 Topics in Biochemistry 3</p>
Computer electronics/Graphics Tech	
4.1	<p>Course Revision GRT 242 Introduction to Graphic Design and Color</p> <p>Change title to “Digital Color Cross-Media Workflow”</p>
4.2	<p>Course Addition CET 179 Basic Network Administration 3</p> <p>Introduction to techniques and skills essential for system and network administration in Unix/Linux or similar network operating system (NOS) environment. Topics include physical network installation, software installation, configuration, administration, performance monitoring, analysis, and troubleshooting. Two hour lecture and two hour laboratory, course meets four hours per week.</p>
4.3	<p>Course Addition CEGT 400 Internship and Senior Seminar 3</p> <p>Prereqs: Completion of 75 credits in the degree or Permission of Department Chairperson</p> <p>This course is designed to provide students an opportunity to observe, participate and work in an environment directly related to their technical specialization. The internship is a program of experiences tailored for each intern within a specific cooperating company. Students must be employed during the semester they enroll.</p>

4.4	<p>Course Revision GRT 342 Screen printing and Post-Press Operation 3</p> <p>Prereqs: GRT 212, GRT 242 or permission of instructor</p> <p>Application and techniques for screen and specialty printing on a variety of substrates. Issues and processes control concerns related to the image transfer methods. Three hours lecture and two hours laboratory, course meets five hours per week.</p>
4.5	<p>Course Addition GRT 422 Print Distribution Management 3</p> <p>Prereqs: GRT 362</p> <p>Industry workflow systems and processes used to distribute and deliver the print and media related products. Logistical shipping methods, such as United States Postal Service (USPS), parcel delivery, shipping, warehousing and fulfillment operations in order to successfully deliver the products to end users. Two hour lecture and two hour laboratory, course meets four hours per week.</p>
4.6	<p>Course Revision CET 453 Microcomputers 3</p> <p>Prereqs: CS 213 or CS 151 or ROBO 110, and CET 363; or acceptance to the Graduate MSCIT or MSTM programs</p> <p>Microcontroller architecture including basic memory design, address decoding and internal register structure, and assembly language programming including addressing modes and instruction set. Laboratory work consists of programming and interfacing experiments. Projects focus on solving real world problems following a standard development process. Three hours lecture and two hours laboratory, course meets five hours per week. Fall</p>
Counseling & Family Therapy	
5.2	<p>Program Revision Marriage and Family Therapy</p> <p>Change CNSL 505 to "CNSL 505 or Psy 512"</p>
Earth Science	
6.1	<p>Course Deletion ESCI 110 Introduction to the Earth</p>

6.2	Course Deletion ESCI 117 Introduction to the Solar System
6.3	Course Deletion ESCI 118 Introduction to Stars and Galaxies
6.4	Course Deletion ESCI 442 Weather Analysis and Forecasting
6.5	Course Deletion ESCI 461 Physical Meteorology
6.6	Course Deletion ESCI 462 Dynamic Meteorology
6.7	Course Addition ESCI 102 Earth and the Human Environment 3 Topics in geology, meteorology, and astronomy with an emphasis on the relationships and interconnectedness between the natural environment and human activity. May not be applied to a major or minor in Earth Sciences. Study Area IV
6.8	Course Addition ESCI 112 Search for Life on Other Planets 3 Prereqs: Math 099 or equivalent Exploration of the solar system and beyond, using introductory concepts in astronomy, biology, and geology to examine natural phenomena and address scientific questions about the possibilities of life outside Earth. May not be applied to a major or minor in Earth Sciences. Study Area IV
6.9	Course Addition ESCI 113 The Cosmos 3 Prereqs: Math 099 or higher Topics in modern astronomy with an emphasis on the process of scientific discovery and the scale and evolution of the universe. May not be applied to a major or minor in Earth Sciences. Study Area IV
6.10	Course Revision ESCI 121 Physical Geography 4 Change title and description, remove laboratory, credits go from 4 to 3 ESCI 121 The Dynamic Earth 3 Basic concepts of geology and the dynamic processes operating on and within the earth

	<p>and how those processes can impact humans. Topics include formation of rocks, erosion and landscape evolution, plate tectonics, an interpretation of earth processes from geological data. Volcanic, earthquake, flooding, coastal erosion and landslide hazards and glaciation are also covered. No credit given to Earth Science majors with credit for ESCI 131. Study Area IV</p>
6.11	<p>Course Addition ESCI 125 The Dynamic Earth Laboratory 1</p> <p>Prereqs: ESCI 121 (may be taken concurrently)</p> <p>Laboratory investigations into geology and the dynamic processes operating on and within the earth and how those processes can impact humans. Topics include minerals and rocks, erosion and landscape evolution, plate tectonics, an interpretation of earth processes from geological data. Volcanic, earthquake, flooding, coastal erosion and landslide hazards and glaciation No credit given to Earth Science majors with credit for ESCI 135. Study Area IV</p>
6.12	<p>Course Addition ESCI 131 Environmental Geoscience 3</p> <p>Investigation of Earth environmental systems including streams, lakes, estuaries, coastal, groundwater, and the physical ocean, as well as the impact of humans on those environments. Topics will also include material and energy resources, waste disposal, and climate change. No credit given for Earth Science majors with credit for ESCI 121. Study Area IV</p>
6.13	<p>Course Addition ESCI 135 Environmental Geoscience Laboratory 1</p> <p>Prereq: ESCI 131 (may be taken concurrently)</p> <p>Laboratory investigations of Earth environmental systems including streams, lakes, estuaries, coastal, groundwater, and the physical ocean, as well as the impact of humans on those environments. Topics will also include material and energy resources, waster disposal, and climate change. No credit given to Earth Science majors with credit for ESCI 125. Study Area IV</p>
6.14	<p>Course Addition ESCI 470 Extrasolar Planets and Astrobiology 3</p> <p>Prereqs: ESCI 208, and BIO 121 or BMS 102/103; or permission of department chair</p> <p>Exploration of the processes related to planet formation and evolution and the planetary conditions required for the emergence of life, as well as the astronomical techniques used to detect extrasolar planets, discern their properties (include potential habitability), and collect statistics on their occurrence in the universe. Fall (O)</p>

6.15	<p>Course Revision ESCI 122 Historical Geology</p> <p>Change number and title to ESCI 141 Earth and Life History 3</p> <p>Delete prereqs, , remove laboratory, credits go from 4 to 3</p> <p>Change description to:</p> <p>Introduction to the principles and interpretation of Earth history, emphasizing the evolution of the lithosphere, atmosphere, and biosphere through geologic time. Emphasis will be made on the historical aspects of plate tectonics, the geologic development of North America, and important events in biological evolution. Study Area IV</p>
6.16	<p>Course Addition ESCI 145 Earth and Life History Laboratory 1</p> <p>Prereqs: ESCI 141 (may be taken concurrently)</p> <p>Optional laboratory to accompany ESCI 141 Earth and Life History. Topics of lab exercises will include common minerals and rocks, especially sedimentary rocks and depositional environments, relative time, rock and fossil stratigraphy, radiometric dating techniques, stratigraphic sequences, geologic maps and cross sections, fossils, paleoecology, and evolution. Required for Earth Science majors. One three-hour laboratory per week.</p>
6.17	<p>Course Revision ESCI 178 Planetary Astronomy 4</p> <p>Change number to ESCI 208, change description to:</p> <p>Study of the bodies of the solar system, their motions, compositions, and evolution. Topics will include physical laws of motion and radiation, comparison of the surfaces, atmospheres, and interiors of solar system objects, and the formation of the solar system. Three lectures and one two-hour laboratory per week. Study Area IV</p>
6.18	<p>Course Revision ESCI 179 Stellar Astronomy 4</p> <p>Change number and title to 209 Stellar and Galactic Astronomy</p> <p>Change description to:</p> <p>Study of stars and galaxies as separate bodies and members of clusters. Topics will include astrophysical properties of stars and galaxies, stellar and galactic evolution, and cosmology. Emphasis will be placed on observational and experimental methods astronomers use to study the universe. Three lectures and one two-hour laboratory per</p>

	week. Study Area IV
6.19	<p>Course Revision ESCI 221 Mineralogy 4</p> <p>Prereqs: ESCI 125 or ESCI 135, CHEM 161 and CHEM 162</p> <p>Study of minerals, their formation, occurrence, properties, composition, and classification. Topics include crystal chemistry, internal crystal structures. optical and other physical properties, identification of crystal forms and mineral specimens, and an introduction to petrology. Three lectures and one three-hour laboratory per week. One or more one-day field trips. Fall (O)</p>
6.20	<p>Course Revision ESCI 223 Stratigraphy and Sedimentology 4</p> <p>Prereqs: ESCI 145, 290</p> <p>Study of the processes and patterns of sedimentation as well as the spatial and temporal distribution of strata. Both ancient and modern depositional environments will be investigated. Three, one-hour lectures; one, three-hour lab; and one or more one-day field trips. Spring (O)</p>
6.21	<p>Course Revision ESCI 290 Field Methods in Geology 2</p> <p>Prereqs: ESCI 125 or 135</p> <p>Methods and equipment used in field geology, including use of a Brunton compass, outcrop description and sketching, basic mapping techniques, sampling methods, notebook maintenance, use of global positioning system (GPS) technology, geologic maps and cross sections, field safety, and report writing. One, tree-hour lab per week. Lab sessions will typically involve outdoor activities. Two or more half-day field trips required. Fall</p>
6.22	<p>Course Revision ESCI 321 Structural Geology 4</p> <p>Prereqs: ESCI 125 or 135, 290 (may be taken concurrently)</p> <p>Study of the geometry and origin or rock structures that are products of earth deformation. These include folds and faults, as well as microstructures. Emphasis will be placed on recognition and interpretation of structures through field and laboratory studies. Three lectures and one three-hour laboratory per week. One or more one-day field trips are required.</p>
6.23	<p>Course Revision ESCI 322 Igneous and Metamorphic Petrology</p>

	Change Prerequisites to ESCI 145 and ESCI 221
6.24	<p>Course Revision ESCI 330 Astrophysics</p> <p>Change number to ESCI 418</p> <p>Change prereqs. (delete physics 122)</p> <p>Change prereq from “permission of instructor” to “permission of department chair”,</p> <p>Change description to :</p> <p>Astrophysics of stars and galaxies, including stellar structure, nucleosynthesis and evolution, galactic structure and evolution, and relativistic cosmology.</p>
6.25	<p>Course Revision ESCI 378 Comparative Planetology</p> <p>Changing prerequisites to “ESCI 121 or 131 or 208”</p> <p>Change description to :</p> <p>Study of the surfaces, interiors, and atmospheres of objects in the solar system with the goal of better understanding the formation and evolution of planetary bodies both similar to and different from the Earth.</p>
6.26	<p>Course Revision ESCI 424 Geomorphology</p> <p>Change Prerequisites to “ESCI 125 or 135”</p>
6.27	<p>Course Revision ESCI 425 Glacial and Quaternary Geology</p> <p>Change Prerequisites to “ESCI 125 or 135 “</p> <p>Change cycling to Spring (E)</p>
6.28	<p>Course Revision ESCI 431 Introduction to Hydrogeology</p> <p>Change Prerequisites to ESCI 125 or 135, CHEM 161 and 162; MATH 152 (may be taken concurrently)</p> <p>Change Cycling to Spring (E)</p>
6.29	<p>Course Revision ESCI 450 Environmental Geology</p>

	<p>Change title to ESCI 450 Environmental and Engineering Geology</p> <p>Change Prerequisites to ESCI 125 or 135, MATH 115 or 119, or permission of department chair.</p> <p>Change Cycling to Fall (0)</p>
6.30	<p>Course Revision ESCI 478 Planetary Image Analysis</p> <p>Change Prerequisites to PHYS 126 or permission of department chair</p> <p>Change description to:</p> <p>Theory and application of image analysis to determine the geologic history of solar system objects through examination of surface morphology and mineralogy as observed in multi- and hyperspectral datasets. Spring (0)</p>
6.31	<p>Program Revision Minor in Earth Sciences</p> <p>Revise to:</p> <ul style="list-style-type: none"> Minor in Earth Sciences (18 credits) ESCI 121 Dynamic Earth 3 or ESCI 131 Environmental Geosciences 3 ESCI 125 Dynamic Earth Laboratory 1 or ESCI 135 Environmental Geosciences Laboratory 1 ESCI 129 Introduction to Meteorology 4 ESCI 208 Planetary Astronomy 4 or ESCI 209 Stellar Astronomy 4 <p>The remaining credits will be chosen after consultation with an Earth Sciences advisor.</p>
6.32	<p>Program Addition Minor in Astrobiology</p> <p>Designed for majors in Biology, Biomolecular Science, Chemistry, Earth Science, or Physics.</p>

	<p>18 credits, as follows:</p> <p>Core: ESCI 208 Planetary Astronomy (4) BIO 121 or BMS 102/103 (4)</p> <p>Capstone: ESCI 470 Extrasolar Planets and Astrobiology (3)</p> <p>The remaining 7 credits will be selected from the following pre-approved electives or other electives as approved by an advisor in the minor:</p> <p>BIO 200 General Biology III (4) BIO 230 Natural History (2) BIO 315 Microbial Ecology (4) BIO 405 Ecology (4) BIO 440 Evolution (3) BMS 201 Principles of Cell and Molecular Biology (4) BMS 316 Microbiology (4) CHEM 210 Organic Chemistry I (3) CHEM 211 Organic Chemistry I lab (1) CHEM 212 Organic Chemistry II (3) CHEM 213 Organic Chemistry II lab (1) ESCI 209 Stellar and Galactic Astronomy (4) ESCI 378 Comparative Planetology (3) ESCI 478 Planetary Image Analysis(3)</p> <p>Note that some electives have additional prerequisites.</p> <p>In addition, students must take CHEM 161/162/163/164 (all required by majors listed above).</p> <p>Since students cannot double-count specific courses for a major and minor, Biology, BMS, and ESCI majors may take additional electives in lieu of designated core courses.</p>
6.33	<p>Program Deletion Minor in Meteorology</p>
6.34	<p>Program Revision Major in Earth Sciences, B.S. (Certifiable for secondary teaching)</p> <p>ESCI 121 Dynamic Earth 3 or ESCI 131 Environmental Geosciences 3</p> <p>ESCI 125 Dynamic Earth Laboratory 1 or</p>

	<p>ESCI 135 Environmental Geosciences Laboratory 1</p> <p>ESCI 141 Earth and Life History 3</p> <p>ESCI 145 Earth and Life History Laboratory 1</p> <p>ESCI 129 Introduction to Meteorology 4</p> <p>ESCI 208 Planetary Astronomy 4</p> <p>ESCI 209 Stellar Astronomy 4</p> <p>ESCI 221 Mineralogy 4</p> <p>ESCI 278 Observational Astronomy 4</p> <p>or</p> <p>ESCI 290 Field Methods 2</p> <p>Remaining credits must be take from Earth Science courses at the 200-level and above as approved by faculty advisor</p> <p>In addition, students must take:</p> <p>CHEM 161 General Chemistry I 3</p> <p>CHEM 162 General Chemistry I Lab 1</p> <p>CHEM 163 General Chemistry II 3</p> <p>CHEM 164 General Chemistry II Lab 1</p> <p>PHYS 121 General Physics I 4</p> <p>PHYS 122 General Physics II 4</p> <p>BIO 121 General Biology I 4</p> <p>BIO 122 General Biology II 4</p> <p>EDTE 316 Principles of Learning (Sec/K-12) 4</p> <p>EDF 415 Educational Foundations 3</p> <p>SPED 315 Introduction to Educating Learners with Exceptionalities 3</p> <p>EDSC 425 Principles of Secondary Education 3</p> <p>EDSC 435 Secondary Education Student Teaching 3-9</p> <p>RDG 440 Literacy in the Secondary School 3</p> <p>SCI 416 Educational Technology in Secondary Science 3</p> <p>SCI 417 Teaching of Science in the Secondary School 3</p> <p>SCI 419 Student Teaching Seminar 1</p> <p>MATH 152 Calculus I 4</p> <p>MATH 221 Calculus II 4</p>
6.35	<p>Program Revision Major in Earth Sciences, B.S. (non-teaching)</p> <p>ESCI 121 Dynamic Earth 3</p> <p>or</p> <p>ESCI 131 Environmental Geosciences 3</p> <p>ESCI 125 Dynamic Earth Laboratory 1</p> <p>or</p> <p>ESCI 135 Environmental Geosciences Laboratory 1</p>

	<p> ESCI 141 Earth and Life History 3 ESCI 145 Earth and Life History Laboratory 1 ESCI 129 Introduction to Meteorology 4 </p> <p> ESCI 208 Planetary Astronomy 4 or ESCI 209 Stellar Astronomy 4 </p> <p> ESCI 278 Observational Astronomy 4 or ESCI 290 Field Methods in Geology 2 </p> <p> ESCI 360 Research Methods in the Earth Sciences 1 </p> <p> In addition, 1 to 3 credits of the following are required: ESCI 460 Senior Project 1-3 or ESCI 480 Internship in Earth Sciences 1-3 </p> <p> The remaining 12 to 16 credits will be selected in consultation with the student's advisor in order to focus on either Astronomy and Planetary Science or Environmental Geosciences </p> <p> In addition, the following are required: CHEM 161 General Chemistry I 3 CHEM 162 General Chemistry I Lab 1 CHEM 163 General Chemistry II 3 CHEM 164 General Chemistry II Lab 1 MATH 152 Calculus I 4 MATH 221 Calculus II 4 PHYS 125 University Physics I 4 PHYS 126 University Physics II 4 </p> <p> A minor is not required </p>
6.36	<p> Program Revision <u>Minor in Earth Sciences (Certifiable for secondary teaching)</u> </p> <p> ESCI 121 Dynamic Earth 3 or ESCI 131 Environmental Geosciences 3 </p> <p> ESCI 125 Dynamic Earth Laboratory 1 or ESCI 135 Environmental Geosciences Laboratory 1 </p>

	<p> ESCI 141 Earth and Life History 3 ESCI 145 Earth and Life History Laboratory 1 ESCI 129 Introduction to Meteorology 4 ESCI 208 Planetary Astronomy 4 ESCI 209 Stellar Astronomy 4 </p> <p>In addition, students must take:</p> <p> SCI 416 Educational Technology in Secondary Science 3 SCI 417 Teaching of Science in the Secondary School 3 SCI 419 Student Teaching Seminar 1 MATH 152 Calculus I 4 MATH 221 Calculus II 4 PHYS 121 General Physics I 4 PHYS 122 General Physics II 4 </p>
6.37	<p>Program Revision Minor in Geology</p> <p> ESCI 121 The Dynamic Earth 3 or ESCI 131 Environmental Geosciences 3 </p> <p> ESCI 125 The Dynamic Earth Laboratory 1 or ESCI 135 Environmental Geosciences Laboratory 1 </p> <p> ESCI 221 Mineralogy 4 ESCI 321 Structural Geology 4 ESCI 290 Field Methods 2 </p> <p>and one course from the following:</p> <p> ESCI 223 Stratigraphy and Sedimentology 4 ESCI 321 Structural Geology 4 ESCI 424 Geomorphology 3 </p>
6.38	<p>Program Revision Minor in Astronomy</p> <p>18 credits in Astronomy and related fields, including:</p> <p> ESCI 208 Planetary Astronomy 4 ESCI 209 Stellar and Galactic Astronomy 4 The remaining course will be selected from ESCI 278, 378, 418, 470, 478, or other electives after consultation with an earth sciences department advisor. </p>

	<p>In addition, students must take:</p> <p>MATH 152 Calculus I 4</p> <p>MATH 221 Calculus II 4</p> <p>PHYS 125 University Physics I 4</p> <p>PHYS 126 University Physics II 4</p>
6.39	<p>Program Revision B.S.ED. ELEMENTARY EDUCATION INTERDISCIPLINARY SCIENCES: Earth Science</p> <p>Change Specialization in earth science section to the following:</p> <p>ESCI 121 The Dynamic Earth and ESCI 125 Dynamic Earth Lab; or ESCI 131 Environmental Geoscience and ESCI 135 Environmental Geoscience lab</p> <p>ESCI 129 Intro to Meteorology</p> <p>ESCI 208 Planetary Astronomy</p> <p>ESCI electives (choose a minimum of 6 credits as needed to reach 39; at least 3 credits must be taken at the 300 or 400 level)</p> <p>ESCI 141 Earth and Life History</p> <p>ESCI 145 Earth and Life History Lab</p> <p>ESCI 209 Stellar and Galactic Astronomy</p> <p>ESCI 278 Observational Astronomy</p> <p>ESCI 290 Field Methods</p> <p>other electives as approved by advisor</p>
6.40	<p>Program Revision BSED Elementary Education, Interdisciplinary Sciences: Biology</p> <p>Change earth science section to the following:</p> <p>Choose Earth Science group A, B, or C (7-8 credits):</p> <p>(A) ESCI 129 Intro to Meteorology and ESCI 113 The Cosmos (7 credits)</p> <p>(B) ESCI 121 The Dynamic Earth and ESCI 141 Earth and Life History, and ESCI 125 Dynamic Earth lab and/or ESCI 145 Earth and Life History Lab (7-8 credits)</p> <p>(C) ESCI 131 Environmental Geoscience and ESCI 141 Earth and Life History, and ESCI 135 Environmental Geoscience lab and/or ESCI 145 Earth and Life History Lab (7-8 credits)</p>
6.41	<p>Program Revision Major in Earth Sciences with Specialization in Geology BS (non-teaching)</p> <p>Major in Earth Sciences with Specialization in Geology, BS (Non-teaching, 36 credits)</p> <p>ESCI 121 Dynamic Earth 3</p>

	or				
	ESCI 131	Environmental Geoscience	3		
	ESCI 125	Dynamic Earth Laboratory	1		
	or				
	ESCI 135	Environmental Geoscience Laboratory		1	
	ESCI 141	Earth and Life History	3		
	ESCI 145	Earth and Life History Laboratory	1		
	ESCI 221	Mineralogy	4		
	ESCI 223	Stratigraphy and Sedimentology	4		
	ESCI 290	Field Methods in Geology	2		
	ESCI 321	Structural Geology	4		
	ESCI 322	Igneous and Metamorphic Petrology		4	
	ESCI 360	Research Methods in the Earth Sciences			1
	ESCI 424	Geomorphology	4		
In addition, 2 to 4 credits from ESCI 460 or 4 credits from an external geology field camp approved by the Department Chair are required.					
The remaining 1 to 3 credits will be selected from:					
	ESCI 378	Comparative Planetology	3		
	ESCI 431	Introduction to Hydrogeology	4		
	ESCI 450	Environmental Geology	3		
	ESCI 478	Planetary Image Analysis	3		
	ESCI 480	Internship in Earth Sciences	1-3		
	ESCI 490	Topics in Earth Science	3-4		
or other electives as selected in consultation with the student's advisor					
In addition, the following are required:					
	CHEM 161	General Chemistry I	3		
	CHEM 162	General Chemistry I Lab	1		
	CHEM 163	General Chemistry II	3		
	CHEM 164	General Chemistry II Lab	1		
	MATH 152	Calculus I	4		
	MATH 221	Calculus II	4		
	PHYS 125	University Physics I	4		
	PHYS 126	University Physics II	4		
A minor is not required.					

English

7.1	<p>Course Addition ENG 407 Literature for Teachers 3</p> <p>prereqs: Admission to the Secondary Education program in English</p> <p>Focusing on fiction, poetry and non-fiction texts commonly taught in middle and high schools, this course offers students critical literary reading and writing skills in the context of their preparation to teach those skills to secondary school students. Spring</p>
7.2	<p>Course Addition ENG 408 Teaching Writing in Middle and Secondary Schools 3</p> <p>Prereqs: Admission to the Secondary Education program in English</p> <p>Designed to teach students how to teach writing in middle and secondary schools, this course is practice- and activity-oriented; students will leave the class able to design writing instruction appropriate to their students' needs by engaging in the sorts of activities that they will eventually design. A second focus is on the assessment of writing, both formal and informal, with an emphasis on creating effective rubrics. Fall</p>
7.3	<p>Program Revision Major in English, B.S. (Appropriate for certification in secondary education)</p> <p>ENG 203 Survey of World Literature: Ancient to Early Modern 3 ENG 204 Survey of World Literature: 17th Century to the Present 3 ENG 205 Survey of British Literature: Middle Ages to the 18th Century 3 ENG 210 Survey of American Literature: Pre-Civil War 3 ENG 211 Survey of American Literature: Civil War to the Present 3 ENG 298 Introduction to Literary Studies 3 ENG 402 Advanced Composition & Technology in the English Classroom 3 ENG 406 Teaching the Mechanics of Writing 3 ENG 407 Literature for Teachers 3 ENG 408 Teaching Writing in Middle and Secondary Schools 3 ENG 449 Major American Authors 3 ENG 492 Literature for Young Adults 3</p> <p>ENG 220 Shakespeare 3 or ENG 461 Shakespeare: Major Comedies 3 or ENG 462 Shakespeare: Major Tragedies 3</p> <p>ENG 398 (on American lit) 3 and one additional 300-400-level British literature course 3 OR ENG 398 (on British lit) 3</p>

	<p>and one additional 300-400-level American literature course 3</p> <p>CINE 201 The Language of Film 3 LING 300 Language Acquisition 3 LING 200 must be taken to fulfill Study Area III.</p> <p>Professional education courses: ENG 420 (to be taken concurrently with EDSC 425) and ENG 435 (to be taken concurrently with EDSC 435) counted toward professional education. Also, SPED 315, EDTE 316, EDSC 425, EDF 415, RDG 440, EDSC 435 are required for certification.</p> <p>No minor is required for this major.</p> <p>All studies courses (ENG 348, 358, 388, 448, 458, 449, and 488) may be taken twice under different topics. Further substitutions within area requirements are permitted only with prior approval of the advisor and the department chair.</p>
History	
8.1	<p>Course Addition Hist 462 The New Deal 3</p> <p>Prereqs: HIST 301 or permission of the instructor</p> <p>This course explores the economic, political, cultural, and social history of the Great Depression and New Deal in the United States. Fall(E)</p>
Latino Studies	
9.1	<p>Course Addition LTN 270 Topics in Latino and Puerto Rican Studies 3</p> <p>An interdisciplinary topics course for Latino and Puerto Rican Studies at the 200 level to be cross-listed with new and/or existing courses that focus on U.S. Latinos as offered by participating departments and affiliated Latino Studies Faculty. Study Area II</p>
9.2	<p>Course Addition LTN 370 Topics in Latino and Puerto Rican Studies 3</p> <p>An interdisciplinary topics course for Latino and Puerto Rican Studies at the 300 level to be cross-listed with new and/or existing courses that focus on U.S. Latinos as offered by participating departments and affiliated Latino Studies Faculty.</p>

9.3	<p>Program Revision Latino and Puerto Rican Studies</p> <p>A minor program in Latino and Puerto Rican studies prepares students with interdisciplinary knowledge and practical understanding of the social, economic, historical, and cultural conditions and impact of Latinos/as in the U.S. The program consists of a gateway introductory course in interdisciplinary Latino Studies (LTN 110), a capstone Individual Research Experience requirement (LTN 410), and 12 credits of electives, at least six of which must be at or above the 300 level.</p> <p>Program Minor in Latino and Puerto Rican Studies</p> <p>LTN 110 Introduction to Latino and Puerto Rican Studies 3 LTN 410 Individual Study Project in Latino Studies 3</p> <p>and 12 credits from the following electives, 6 of which must be at the 300 level or above. Note: Students without intermediate competence in Spanish (SPAN 125/190 or equivalent) must complete SPAN 125 or 190 in lieu of one of their elective courses.</p> <p>ANTH 200 Dimensions of Diversity and Inequality 3 ANTH 352 Ethnicity and Ethnic Identity 3 ANTH 428 Cultures of Latin America 3 CRM 245 Diversity and Criminal Justice 3 ENG 347 Latino/a Literature 3 HIST 316 History of the American West to 1890 3 HIST 317 History of the American West, 1890 to Present 3 HIST 319 Race, Ethnicity, and Migration in the U.S. 3 IS 240 Caribbean Cultural Patterns 3 IS 245 Puerto Rico 3 LTN 270 Topics in Latino and Puerto Rican Studies 3 LTN 370 Topics in Latino and Puerto Rican Studies 3 LTN 470 Topics in Latino Studies 3 SOC 322 Race and Ethnic Relations 3 SOC 422 Sociology of Immigration 3 SOC 460 Social Movements and Collective Action 3 SPAN 191 Language for Heritage Speakers of Spanish II 3 SPAN 290 Hispanic Culture for Heritage Speakers of Spanish I 3 SPAN 291 Hispanic Culture for Heritage Speakers of Spanish II 3 SPAN 316 Latin American Civilization 3</p>
Physical Education	
10.1	<p>Course Addition PE 220 Skills and Instructional Strategies in Aquatics 1</p>

	<p>Prereqs: Open to Physical Education Majors only</p> <p>This aquatics course covers fundamentals of water safety, basic stroke mechanics and the standing front dive. Water fitness activities such as water aerobics and water polo are included. The focus is on skill development, instructional strategies and progressions.</p>
10.2	<p>Course Addition PE221 Skills and Instructional Strategies in Resistance Training 1</p> <p>Prereqs: Open to Physical Education Majors only</p> <p>Teacher candidates will learn how to teach and achieve muscular fitness. The emphasis is on technique, alignment and developmentally appropriate programming for grades 6-12. A variety of resistance forms will be covered such as weight training machines, free weights, stability balls, and exercise bands</p>
10.3	<p>Course Addition PE 222 Skills and Instructional Strategies in Yoga 1</p> <p>Prereqs: Open to Physical Education Majors only</p> <p>This course is designed to introduce teacher candidates to the philosophy and practice of yoga. Purpose is for the development of personal skills and to prepare teacher candidates in the knowledge and teaching methodologies of yoga for 6-12th grade students.</p>
10.4	<p>Course Deletion PE 408 The Curriculum Process in K-12 Physical Education 3</p>
10.5	<p>Course Revision REC 165 Level 1 Yoga</p> <p>Add irregular cycling</p>
10.6	<p>Course Revision EXS 210 Personal and Community Health</p> <p>Change number and title to PE 210 Methods of Teaching School Health Education</p> <p>Change credits from 2 to 3</p> <p>Change description to:</p> <p>A pedagogical approach to examining the concepts and skills to promote positive health behaviors and background information and skills teachers need to implement comprehensive school health education in the public school setting.</p>

10.7	Course Revision PE 219 Methods of Teaching Golf Change title to Skills and Instructional Strategies in Golf
10.8	Course Revision PE 277 Outdoor Adventure Activities Change title to Methods of Teaching Cooperative Activities Reduce credits from 2 to 1 Change description to Teacher candidates will learn how to effectively organize and teach cooperative learning activities designed to promote cooperation, team work, problem solving and decision making within the physical education setting for PK-12 grade students
10.9	Course Revision PE 278 Methods of Teaching Games Change title to Methods of Teaching Games and Rhythmic Activities Change description to: Purpose is to prepare teacher candidates in the knowledge and teaching methodologies to effectively organize and implement a variety of games and experiences for PK-8th grade. Emphasis is on selection of age appropriate games and demonstration to involve children in the analysis and modification of games. Creative rhythmic activities, elementary folk dance steps and developmentally appropriate movement activities are introduced
10.10	Course Revision PE 300 Developmental Movement Change title to "Physical Education Teaching Strategies" Change prereq to 278 and PE 299 Open to Physical Education majors only Change description to: This course prepares students to apply Laban's movement framework to the teaching of K-8 physical education classes. Developmentally appropriate movement activities include content based literacy. Effective planning and teaching strategies are developed. 20 hours of field experience in an elementary/middle school setting is required.
10.11	Course Revision PE 374 Methods of Teaching Fitness

	Change Pre-req to PE 221 and EXS 214 (C- or higher) Open to Physical Education majors only
10.12	<p>Course Revision PE 416 Organization and Administration of Physical Education</p> <p>Change title to: "Organization of Curriculum and Program Development"</p> <p>Prereq: PE 405 and admission to the Professional Program in Physical Education</p> <p>Coreq.: PE 417.</p> <p>This course includes identification of competency-based, goal-oriented activities appropriate to K-12 physical education. Emphasis is on program development and design, instructional process, program implementation, and evaluation. Administrative responsibilities including curriculum development, program development, facility management, budgeting, public relations, personnel management, program and staff evaluation, and legal liability issues will be discussed. Fingerprinting must be completed prior to the beginning of class.</p>
Woman, Gender, & Sexuality Studies	
11.1	<p>Course Addition WGSS 118 Women's Contributions to Science 3</p> <p>MATH 099 or permission of instructor</p> <p>Exploration of discoveries made by women scientists, including their methodology, consequences, and the social constraints placed upon them. Two lectures and one, two-hour laboratory period per week Cross-listed with ISCI 118. No credit may be received by students who have received credit for ISCI 118</p>
11.2	<p>Course Addition WGSS 351 Gay & Lesbian Communities 3</p> <p>Prereqs: SOC 110</p> <p>Examines the history and structure of American gay and lesbian communities. Questions the social forces that have contributed to the formation, growth and consequences of such communities. Topics such as the gay and lesbian civil rights movement, the role of organizations and the development of gay and lesbian identity are addressed. Cross-listed with SOC 350. No credit may be received by students who have received credit for SOC 350.</p>
11.3	<p>Course Addition WGSS 380 Women and Film 3</p> <p>Examines selected films with regard to the representation of women on screen,</p>

	women's filmmaking as a critical practice, and issues in feminist film theory and criticism. Includes perspectives on Hollywood and independent American and international cinema. Cross-listed with COMM 380. No credit may be received by students who have received credit for COMM 380. fall
11.4	<p>Course Addition WGSS 391 Human Sexuality 3</p> <p>Prereqs: PSY 112 and one other course in psychology</p> <p>Survey of social scientific theories and studies relevant to understanding human sexuality. Topics include reproductive technology, attraction, sexual response cycle, therapeutic interventions, sexually-transmitted diseases, and human development. Cross-listed with PSY 390. No credit may be received by students who have received credit for PSY 390</p>
11.5	<p>Course Addition WGSS 416 Gender and Communication 3</p> <p>Prereqs: Junior standing or higher or permission of instructor</p> <p>Examines different theoretical approaches to gender and the implications these have for our understanding of communication theories and practices. Cross-listed with COMM 416. No credit may be received by students who have received credit for COMM 416.</p>
11.6	<p>Course Addition WGSS 445 Social Construction of Sexuality 3</p> <p>Prereqs: SOC 110 and 3 additional credits in Sociology</p> <p>Explores how sexuality is constructed in American culture in the 21st century. Criticizes common assumptions that naturalize sex and sexuality to investigate complex and changing social contexts of sexualities. Cross-listed with SOC 445. No credit may be received by students who have received credit for SOC 445.</p>
11.7	<p>Program Revision Minor in Women, Gender and Sexuality Studies</p> <p>Women, Gender, and Sexuality Studies is an interdisciplinary program concerned with issues that affect people due to their gender or sexual identity. The minor allows students to take courses in various departments that will enrich their lives as they explore topics such as the meanings of femininity and masculinity, sexual orientation, gender roles in society, sex, feminism, and global gender issues.</p> <p>WGSS 200 Introduction to Women, Gender, and Sexuality Studies with 15 additional credits from the following courses:</p> <p>WGSS118 (ISCI 118);</p>

	<p> WGSS 215 (ENG 215); WGSS 222 (PHIL 222); WGSS 240 (SOC 240); WGSS 241 (PS 241); WGSS 288; WGSS 330 (HIST 330); WGSS 331 (HIST 331); WGSS 334 (HIST 334); WGSS 335 (HIST 335); WGSS 350 (ANTH 350); WGSS 351 (SOC 350); WGSS 380 (COMM 380); WGSS 390; WGSS 391 (PSY 390); WGSS 400; WGSS 416 (COMM 416); WGSS 430; WGSS 435 (COMM 435); WGSS 445 (SOC 445); WGSS 448 (PSY 448); WGSS 469. </p> <p> At least nine credits must be at the 300-400 level, and no more than nine credits can be from any one discipline. Special topic courses may also be used pending approval of the appropriate department chair and the Women, Gender, and Sexuality Studies coordinator. </p>
12.1	<p>TAP General Education Core ratification</p> <p>By a vote of 14 to 5, the curriculum committee voted in favor of ratifying the Framework for the Transfer Articulation Policy (TAP) System-wide General Education Core.</p>