

NORTHERN ILLINOIS UNIVERSITY
COLLEGE OF LIBERAL ARTS AND SCIENCES
CURRICULUM COMMITTEE

September 12, 2018

Approved Minutes

Present: Dave Ballantine (Chair/CLAS), Steve Estes (Ex-Officio), Amanda Durik (PSYC), Trude Jacobsen (HIST/SEAS), Kristen Myers (WGST), Deepak Naidu (MATH), Alicia Schatteman (PSPA), Carol Thompson (PHYS)

Suzanne Hogan (CLAS)

This meeting was held electronically.

A. Action on Minutes

Minutes from the #1 meeting on August 29, 2018 have been approved electronically and forwarded to the catalog editor.

B. Miscellaneous

This meeting will be held electronically since Dave B. is away from the office.

A consent agenda was assembled for the following items: revisions to the Certificate of Undergraduate Study in Applied Ethics; revisions to the Certificate of Undergraduate Study in Sustainable Food Systems; revisions to the minor in Environmental Studies; revisions to GEOL 105, GEOL 120, GEOL 121, GEO 478, GEOL 479, GEOL 505, GEOL 577; deletion of the M.S. in Teaching; revisions to the minor in Geology and Environmental Geosciences. **Motion of approval** moved by Amanda Durik, seconded by Carol Thompson, and approved by all members.

C. Curriculum – Old Business

None

D. Curriculum – New Business

College of Liberal Arts and Sciences

Revisions to the Certificate of Undergraduate Study in Applied Ethics were approved.

Environmental Studies

Program revisions for the Certificate of Undergraduate Study in Sustainable Food Systems and the Minor in Environmental Studies were approved. Revisions to the major emphases 1-5 were **TABLED** with regard to the need for clarification of the addition of MATH 155.

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Department of Geology and Environmental Geosciences

Revisions to GEOL 105, GEOL 120, GEOL 121, GEOL 478, GEOL 479, GEOL 505, and GEOL 577 were approved. The deletion of the M.S. in Teaching was also approved. Revisions to GEOL 405, GEOL 477, the major emphases 1-3, and the minor were **TABLED**. GEOL 405 with regard to the change in credit hours. GEOL 477 with regard to the OSHA certification. Emphases 1-3 with regard to the wording and formatting of requirements outside the department. The minor with regard to the inclusion of revised 405 which has not been approved.

TABLED:

ENVS Program Revision: Major in Environmental Studies, Emphases 1-5

GEOL Course Revision: GEOL 405

Course Revision: GEOL 477

Program Revision: Major in Geology and Environmental Geosciences, Emphases 1-3

Program Revision: Minor in Geology and Environmental Geosciences

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College of Liberal Arts and Sciences

Other Catalog Change

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Inter-College Interdisciplinary Certificates and Programs

Certificate of Undergraduate Study in Applied Ethics

↓

Applied Ethics (12)

↓

PHIL 331 - Classical Ethical Theories (3)

Three of the following (9)

COMS 403 - Freedom of Speech and Communication Ethics (3)

COMS 455 - Media Law and Ethics (3)

COMS 481 - Communication Ethics in Organizations (3)

ENVS 303 - Environment in the Social Sciences and Humanities (3)

HSCI 410 - Legal and Ethical Issues for Health and Human Sciences Professionals (3)

JOUR 480 - Journalism Law and Regulation (3)

~~MGMT 301 - Business and Society (3)~~

PHHE 435 - Ethical Decision Making for Health Professionals (3)

PHIL 334 - Animal Ethics (3)

PHIL 335 - Environmental Ethics (3)

*PHIL 336 - Biomedical Ethics (3)

PHIL 337 - Business Ethics (3)

PHIL 338 - Philosophy of Food (3)

PHIL 353 - Philosophy of Law (3)

PHIL 390³ - Contemporary Topics in Philosophy (3)

PHIL 430³ - Topics in Ethics (3)

~~POLS 322 - Politics and the Life Sciences (3)~~

~~POLS 323 - Biomedicine and the Law (3)~~

POLS 359 - War, Empire, and Ethics (3)

PSPA 411 - The Ethical Public Administrator (3)

TECH 401 - Ethics in Technology (3)

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Footnote 3

³Subject to approval of certificate coordinators, provided that the topic primarily covers applied ethics.

Rationale: The courses removed from the list of certificate electives—MGMT 301, POLS 322, and POLS 323—are no longer regularly offered. The courses added to the list of certificate electives—COMS 481, ENVS 303, HSCI 410, PHIL 334, PHIL 338, and PSPA 411—focus on topics and issues in applied and professional ethics. Since most of these courses have been created in the past several years, adding them as electives merely updates the list of electives without changing the focus of the certificate.

“Coordinators” should be changed to “coordinator” in footnote 3, since there is just one certificate coordinator, as already indicated in the catalog.

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Impact Statement: Representatives of the departments and units responsible for the newly added courses have been consulted and indicated their support.

Environmental Studies

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Minor in Environmental Studies (21-22)

Requirements (21-22)

ENVS 301 - Environmental Science I: Physical Systems (3)

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ENVS 304 - Environmental Law, Policy, and Economics (3)

TECH 305 - Green Technologies (3)

OR ENVS 305X - Green Technologies (3)

OR TECH 245 - Pollution Prevention and Sustainable Production (3)

↓

Select from one of the following humanities and social sciences courses (3)

ANTH 425 - Environment and Anthropology (3)

OR ENVS 425X - Environment and Anthropology (3)

↓

PHIL 335 - Environmental Ethics (3)

PHIL 338 - Philosophy of Food (3)

POLS 220 - Introduction to Public Policy (3)

OR PSPA 220X - Introduction to Public Policy (3)

POLS 324 - Politics of Environmental Health and Safety Regulation (3)

SOCI 364 - Environmental Sociology (3)

Rationale: Update curriculum to add new courses (PHIL 338 and TECH 245). These are courses that have been substituted to fulfill degree requirements for students.

Impact Statement: All the departments have been consulted regarding the addition of their courses to the list of requirements. None of the departments identified any negative impact on course availability or enrollment with these changes.

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Certificate of Undergraduate Study

Sustainable Food Systems (13-14)

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Required Courses (4)

*ENVS 210 - Introduction to Local Sustainable Food Systems (3)

ENVS 490 - Undergraduate Research (1) (field practicum)

One course from each of the following sections (9-10)

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Food and Health (3)

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GEOG 425 - Geography of Food and Agriculture (3)

*NUTR 201 - Human Nutrition (3)

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PHHE 412 - Consumer Health (3)

Social and Cultural (3)

^ANTH 425 - Environment and Anthropology (3)

OR ^ENVS 425X - Environment and Anthropology (3)

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*NNGO 100 - Community Leadership and Civic Engagement (3)

PHIL 338 - Philosophy of Food (3)

^POLS 324 - Politics of Environmental Health and Safety Regulation (3)

Rationale: Update curriculum to add new courses (GEOG 425 and PHIL 338). These are courses that have been substituted to fulfill degree requirements for students.

Impact Statement: All the departments have been consulted regarding the addition of their courses to the list of requirements. None of the departments identified any negative impact on course availability or enrollment with these changes.

Department of Geology and Environmental Geosciences

Program Deletion

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~~Master of Science in Teaching~~

~~The M.S.T. is designed for licensed teachers seeking teaching endorsements at the master's level in disciplines approved by the university. All students pursuing the degree will be required to complete core experiences in which they demonstrate knowledge, skills, and dispositions related to assessment, diversity and special needs, human development and learning, and pedagogy in their content area.~~

~~The student learning outcomes for this degree are located at <http://www.niu.edu/assessment/clearinghouse/outcomes/index.shtml>.~~

Admission

All applicants for the M.S.T. program must meet requirements for admission to the Graduate School and be accepted for admission by the faculty of the specialization.

Specialization in Geoscience Education

The Department of Geology and Environmental Geosciences offers a master's degree specialization in Geoscience Education. Applicants admitted to the program must be licensed to teach secondary school Science, Technology, Engineering, and Mathematics (STEM) (6-12) or licensed to teach in the elementary school (K-9) and who are actively seeking a science endorsement. Successful completion of this specialization will provide the student with the courses and background necessary to pass the State of Illinois Science Content Exam. After successful completion of the program and passing the Illinois State Exam, students may apply for their Earth and Space and/or Environmental Science Endorsement(s) through the

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~~State of Illinois. Other endorsements such as teacher leadership are also possible depending upon the individual's selection of elective course work.~~

~~The central goal of the program is to empower teachers to implement generative and transformative pedagogy by using research-based instructional practices and geoscience content. Five strands permeate the program: (1) active learning through such approaches as project-based learning and inquiry, (2) adolescent identity development, (3) meeting the challenges of diverse and special needs students, (4) assessment of student learning in science, and (5) geoscience content knowledge. All participants will show mastery of these strands through experiences targeting action research and teacher leadership.~~

Requirements

~~The student must complete at least 34 semester hours of graduate work. At least 28 of the 34 hours must be in the geosciences. All courses outside the geosciences must be approved by the department in advance. There are 22 hours of required core courses all candidates must successfully complete. In coordination with their adviser, students will select the additional content courses from the general geoscience graduate catalog per the candidate's choice of endorsement(s) and their previous background.~~

Core Requirements in Department (22)

~~GEOL 529— Inquiry Based Field Experiences for Earth Science Teachers (3)~~

~~GEOL 595X— Teaching of Physical Sciences (3)~~

~~GEOL 610— Geoscience Fundamentals I: Environments, Life and Global Cycles (4)~~

~~GEOL 611— Geoscience Fundamentals II: The Composition, Dynamics and Structure of the Earth (4)~~

~~GEOL 612— Geoscience Fundamentals III: Field Experiences and Applications (4-6)~~

~~GEOL 613— Identity Development, Literacy and Inquiry Methodologies in the Geoscience Classroom I (2)~~

~~GEOL 614— Identity Development, Literacy and Inquiry Methodologies in the Geoscience II (2)~~

Additional Required Electives (12)

~~Geology graduate level courses 500 or above (12). May include up to 6 semester hours in approved graduate level courses outside the department in such disciplines as Biology, Chemistry, Geography, or Physics.~~

Doctor of Philosophy in Geography

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Rationale: Since its inception, the Master of Science in Teaching program has never enrolled a student. The program was created by a faculty member who left the university shortly after the program was created and since then the program has never been properly staffed by faculty or subscribed to by the in-service teachers for whom it was designed. Removing the program effectively ends a failed experiment in meeting the needs of what one former faculty member believed was a large population of potential students that never in fact materialized.

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105. ~~ENVIRONMENTAL GEOLOGY~~ **GEOLOGIC RESOURCES AND THE ENVIRONMENT** (3). Exploration of both constraints imposed by geology

Rationale: Change in course title only. The current course title is out of date and the name change more accurately reflects the content of the course and makes it more accessible to majors and non-majors.

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120. ~~INTRODUCTORY GEOLOGY~~ **PLANET EARTH** (3). Exploration of the diverse processes that continually shape our physical environment. Develops an understanding of Earth materials, how the Earth works, the causes of natural disasters, and the overriding importance of geologic time. Includes

Rationale: Corrections in capitalization in the course description and a change in course title. The current course title is out of date and the name change more accurately reflects the content of the course and makes it more accessible to majors and non-majors.

Course Revision Page 299, 2018-19 Undergraduate Catalog

121. ~~INTRODUCTORY GEOLOGY~~ **PLANET EARTH** LABORATORY (1). Laboratory

Rationale: Change in course title only. The current course title is out of date and the name change more accurately reflects the content of the course and makes it more accessible to majors and non-majors.

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478. ~~GEOLOGIC FIELD WORK~~ **GEOSCIENTIFIC FIELD TECHNIQUES I** (3 2). ~~Field camp. Offered during summer session only.~~ Immersive field experience that provides basic training in the integrative skills of systematic observation, data collection, description and interpretation of geological maps of lightly to moderately deformed regions dominated by sedimentary rocks. May involve up to two and a half weeks of travel to remote areas and physically demanding outdoor activities. PRQ: ~~GEOL 330~~, GEOL 335, **GEOL 375**, and GEOL 405-; ~~or consent of department.~~ ~~CRQ: GEOL 479.~~

Rationale: The current description of this course is incomplete and out of date. The new description reflects the department's intent to modernize and "modularize" our existing requirements for student training in the geoscientific field techniques that are essential to many employment and graduate school career pathways. We are also making these changes to accommodate a growing population of non-traditional students who cannot afford the time or cost associated with our previous six-week course requirement. Many of these students have important responsibilities associated with families and jobs, and these changes reflect our desire to fairly adapt to these changing demographics while still providing the field training that all students need. By coupling this change with changes to our other field courses (e.g., GEOL 477 and GEOL 479), we will now be able to offer students a wider array of less expensive field courses that we can offer over a wider range of times. Students will meet programmatic requirements for field study by taking the right set of courses that meet their professional goals while enabling them to meet their family and employment obligations. This flexibility will help us better meet the needs of today's student body, and will help to attract more students to our program.

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479. ~~GEOLOGIC FIELD WORK~~ **GEOSCIENTIFIC FIELD TECHNIQUES II (3 2)**
~~Continuation of field camp.~~ Immersive field experience that provides intermediate and advanced training in the integrative skills of systematic observation, data collection, description and interpretation of geological processes, materials and features. Focus on creating and interpreting geological maps of moderately to highly deformed regions containing sedimentary, igneous and metamorphic rocks. May involve up to two and a half weeks of travel to remote areas and physically demanding outdoor activities. ~~CRQ:GEOL 478.~~ **PRQ: GEOL 478 or consent of department.**

Rationale: The current description of this course is incomplete and out of date. The new description reflects the department's intent to modernize and "modularize" our existing requirements for student training in the geoscientific field techniques that are essential to many employment and graduate school career pathways. We are also making these changes to accommodate a growing population of non-traditional students who cannot afford the time or cost associated with our previous six-week course requirement. Many of these students have important responsibilities associated with families and jobs, and these changes reflect our desire to fairly adapt to these changing demographics while still providing the field training that all students need. By coupling this change with changes to our other field courses (e.g., GEOL 477 and GEOL 478), we will now be able to offer students a wider array of less expensive field courses that we can offer over a wider range of times. Students will meet programmatic requirements for field study by taking the right set of courses that meet their professional goals while enabling them to meet their family and employment obligations. This flexibility will help us better meet the needs of today's student body, and will help to attract more students to our program.

Course Revision

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505. **SEDIMENTOLOGY AND STRATIGRAPHY (3 4).** Introduction to the study of sedimentary rocks (texture, structure, composition, and interpretation) and methods of stratigraphic data gathering and analysis. Emphasis on depositional processes, sedimentary facies, and analysis of different environments and depositional systems. ~~Introduction to methods of stratigraphic data gathering and analysis.~~ Construction of stratigraphic cross-sections

Rationale: The current description of this course is incomplete and out of date. The new description and name changes reflects the department's intent to modernize and streamline our existing requirements for student training.

Course Revision

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577. **FIELD METHODS IN ENVIRONMENTAL GEOSCIENCES (4)** ~~Field camp designed to train students~~ **Immersive training** in field methods and integrative problem solving related to environmental geosciences covering topics such as field methods in hydrogeology, surface-water and vadose-zone hydrology, water quality analysis, ~~ecosystem health~~, environmental surface geophysics, site evaluation and techniques, and regional landscape history and environmental change. ~~Offered during summer session only.~~ **Multiple field trips and frequent, outdoor physical activity are required.** Students should be competent in hydrogeology prior to enrollment. **PRQ: Consent of department.**

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Rationale: The current description of this course is incomplete and out of date. The new description reflects the department's intent to modernize and "modularize" our existing requirements for student training in the geoscientific field techniques that are essential to many employment and graduate school career pathways. We are also making these changes to accommodate a growing population of non-traditional students who cannot afford the time or cost associated with our previous version of this course. Many of these students have important responsibilities associated with families and jobs, and these changes reflect our desire to fairly adapt to these changing demographics while still providing the field training that all students need. By coupling this change with changes to our other field courses (e.g., GEOL 478 and GEOL 479), we will now be able to offer students a wider array of less expensive field courses that we can offer over a wider range of times. Students will meet programmatic requirements for field study by taking the right set of courses that meet their professional goals while enabling them to meet their family and employment obligations. This flexibility will help us better meet the needs of today's student body, and will help to attract more students to our program.

Other Catalog Change

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University Graduation Requirements



General Education Requirements



Knowledge Domain Course Descriptions



Nature and Technology

ANTH 103. THE GREAT APES (3). Introduction to the Great Apes



GEOL 104. INTRODUCTION TO OCEAN SCIENCE (3). Use of the basic sciences in

GEOL 105. ~~ENVIRONMENTAL GEOLOGY~~ **GEOLOGIC RESOURCES AND THE ENVIRONMENT** (3). Exploration of both constraints imposed by geology on human

GEOL 120. ~~INTRODUCTORY GEOLOGY~~ **PLANET EARTH** (3). Exploration of the diverse processes that continually shape our physical environment. Develops an understanding of Earth materials, how the Earth works, the causes of natural disasters, and the overriding

GEOL 121. ~~INTRODUCTORY GEOLOGY~~ **PLANET EARTH** LABORATORY (1). Laboratory

HIST 323. HISTORY OF SCIENCE TO NEWTON (3). Science in



TECH 294. TECHNOLOGY AND CULTURAL RELEVANCE (3). Development and



Knowledge Domain Course Titles

Nature and Technology

ANTH 103 - The Great Apes (3)



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GEOL 104 - Introduction to Ocean Science (3)
GEOL 105 - ~~Environmental Geology~~ **Geologic Resources and the Environment** (3)
GEOL 120 - ~~Introductory Geology~~ **Planet Earth** (3)
GEOL 121 - ~~Introductory Geology~~ **Planet Earth** Laboratory (1)

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TECH 294 - Technology and Cultural Relevance (3)

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Pathways

↓
Origins and Influences

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Select one of the following Nature and Technology courses:
ANTH 240 - Becoming Human: Discovering Human Origins (3)
ARTH 331 - Art, Nature and Technology 1400 to 1800 (3)
GEOL 103 - Planetary and Space Science (3)
GEOL 120 - ~~Introductory Geology~~ **Planet Earth** (3)
PHYS 162 - Elementary Astronomy (3)

↓
Sustainability

↓
Select one of the following Nature and Technology courses:
ANTH 103 - The Great Apes (3)
BIOS 106 - Environmental Biology (3)
GEOL 105 - ~~Environmental Geology~~ **Geologic Resources and the Environment** (3)
#HIST 377 - American Environmental History (3)
TECH 245 - Pollution Prevention and Sustainable Production (3)

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Rationale: Course revisions for GEOL 105, GEOL 120, and GEOL 121.

Notification: The Pathway Coordinators were notified of these changes via email on September 14, 2018.

Other Catalog Change

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Department of Curriculum and Instruction (LTIC, LTLA, LTRE, TLCI, TLEE)

Major in Elementary Education (B.S.Ed.)

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Requirements outside Department (60)

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Earth and Space Science Courses

*GEOG 101 - Introduction to Environmental Geography (3)
AND *GEOG 102 - Introduction to Environmental Geography Laboratory (1)
OR *GEOG 105 - Introduction to the Atmosphere (3)
AND *GEOG 106 - Introduction to the Atmosphere Laboratory (1)
OR *GEOL 103 - Planetary and Space Science (3)
OR *GEOL 105 - ~~Environmental Geology~~ **Geologic Resources and the Environment** (3)
OR *GEOL 120 - ~~Introductory Geology~~ **Planet Earth** (3)

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AND *GEOL 121 - ~~Introductory Geology~~ Planet Earth Laboratory (1)
OR *PHYS 162 - Elementary Astronomy (3)

Emphasis 1. Bilingual/ESL (15)

↓

Rationale: Course revisions for GEOL 105, GEOL 120, and GEOL 121.

Notification: The Department of Curriculum and Instruction was notified of these changes via email on September 14, 2018.

Other Catalog Change

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Major in Middle Level Teaching and Learning (B.S.Ed.)

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Major Content Area Option: Science (33)

BIOS 208 - Fundamentals of Cellular Biology (3)

AND BIOS 210 - Fundamentals of Cellular Biology Laboratory (1)

↓

*CHEM 211 - General Chemistry II (3)

AND *CHEM 213 - General Chemistry Laboratory II (1)

*GEOL 120 - ~~Introductory Geology~~ Planet Earth (3)

AND *GEOL 121 - ~~Introductory Geology~~ Planet Earth Laboratory (1)

GEOL 475/BIOS 484X/CHEM 490X/ENVS 475X/PHYS 490X - Science across Time and Culture (2)

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PHYS 495/CHEM 495X/GEOL 495X - Teaching of Physical Sciences (3)

Major Content Area Option: Social Science (34)

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Minor Content Area Option: Science (24)

BIOS 208 - Fundamentals of Cellular Biology (3)

AND BIOS 210 - Fundamentals of Cellular Biology Laboratory (1)

↓

*CHEM 210 - General Chemistry I (3)

AND *CHEM 212 - General Chemistry Laboratory I (1)

*GEOL 120 - ~~Introductory Geology~~ Planet Earth (3)

AND *GEOL 121 - ~~Introductory Geology~~ Planet Earth Laboratory (1)

*PHYS 150 - Physics (3),

OR *PHYS 210 - General Physics I (3)

Minor Content Area Option: Social Science (25)

↓

Rationale: Course revisions for GEOL 120 and GEOL 121.

Notification: The Department of Curriculum and Instruction was notified of these changes via email on September 14, 2018.

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Department of Chemistry and Biochemistry

Major in Chemistry (B.S.)

Emphasis 3. Secondary Teaching

Recommendations

BIOS 208 - Fundamentals of Biology I (3),
AND BIOS 210 - Fundamentals of Biology I Laboratory (1)

↓

CSCI 240 - Computer Programming in C++ (4)
*GEOL 120 - ~~Introductory Geology~~ Planet Earth (3),
OR GEOL 325 - Solid Earth Composition (4)

Emphasis 4. Chemistry for Pre-Professional Students1

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Rationale: Course revision for GEOL 120.

Notification: The Department of Chemistry and Biochemistry was notified of this change via email on September 14, 2018.

Other Catalog Change

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Environmental Studies (ENVS)

Major in Environmental Studies (B.A. or B.S.)

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Emphasis 5. Water Sciences (37-41)

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GEOG 101 - Survey of Physical Geography (3)
AND GEOG 102 - Survey of Physical Geography Laboratory (1),
OR GEOL 120 - ~~Introductory Geology~~ Planet Earth (3)
AND GEOL 121 - ~~Introductory Geology~~ Planet Earth Laboratory (1)
GEOG 303 - Water Resources and the Environment (3)

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Total Hours for a Major in Environmental Studies: 58-81 (B.A.); OR 63-75 (B.S.)

Rationale: Course revisions for GEOL 120 and GEOL 121.

Notification: Environmental Studies was notified of these changes via email on September 14, 2018.

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Minor in Geology and Environmental Geosciences (24)

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- *CHEM 210 - General Chemistry I (3)
- *CHEM 212 - General Chemistry Laboratory I (1)
- *GEOL 120 - ~~Introductory Geology~~ Planet Earth (3),
AND *GEOL 121 - ~~Introductory Geology~~ Planet Earth Laboratory (1)
- GEOL 322 - Paleogeography, Paleoclimatology, Paleoecology (4)
- GEOL 325 - Solid Earth Composition (4)
- GEOL 330 - Global Cycles (4)
- GEOL 335 - Dynamics and Structure of the Earth (4)

Six or more semester hours in the minor must be taken at NIU.

Rationale: Revisions to GEOL 120 and GEOL 121.

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Applicable NIU Courses

| NIU Course Number/Title | IAI Numbers |
|--|-------------|
| <i>Communication</i> | |
| ↓ | |
| <i>Physical and Life Sciences</i> | |
| BIOS 101 - Plant Products and Human Affairs | L1 901 |
| ↓ | |
| GEOL 104 - Introduction to Ocean Science | P1 905 |
| GEOL 105 - Environmental Geology Geologic Resources and the Environment | P1 908 |
| GEOL 120 - Introductory Geology Planet Earth | P1 907 |
| GEOL 203 - Global Change | P1 906 |

Rationale: Course revisions for GEOL 105 and GEOL 120.

Notification: Not required.