Present: Dave Ballantine (Chair), Kate Cady (COMS), Sherine Elsawa (BIOS), Steve Estes (Ex-Officio), Angela Grippo (PSYC), Melissa Lenczewski (ENVS), Doris Macdonald (ENGL), Andrea Radasanu (POLs)
Suzanne Hogan (CLAS)

A. **Action on Minutes**

Minutes from the #3 meeting on September 23, 2015, have been submitted electronically to the catalog editor.

B. **Miscellaneous**

None

C. **Curriculum – Old Business**

**College of Liberal Arts and Sciences**

Revisions to the interdisciplinary minors were approved: Classical Studies, Cognitive Studies, Latino/Latin American Studies, and Linguistics.

D. **Curriculum – New Business**

**Department of Biological Sciences**

Course revisions for BIOS 641 and BIOS 683 were approved. Program revisions to the following were also approved: Degree with Biology Honors, Requirements for Degree without a Specialization, Specialization in Bioinformatics, Specialization in Human Anatomical Sciences, Specialization in Biology Teaching, Doctor of Philosophy in Biological Sciences, and the Concentration in Biochemistry and Biophysics. New course proposals for BIOS 489 and BIOS 589 were TABLED until the department submits a syllabus.

**Environmental Studies**

Revisions to ENVS 450 were approved. The committee approved the following program revisions: Major in ENVS, Emphasis 1, Emphasis 2, Emphasis 3, Emphasis 4, Emphasis 5, Emphasis 6, and Emphasis 7.
Division of Statistics

A new course proposal for STAT 324X was approved.

Tabled:

- BIOS – New Course Proposal: BIOS 489
- New Course Proposal: BIOS 589
College of Liberal Arts and Sciences

Other Catalog Change Page 197, 2015-16 Undergraduate Catalog

College of Liberal Arts and Sciences

Interdisciplinary Minors

Any student completing the requirements … …. An interdisciplinary minor is not a baccalaureate requirement and may not be substituted for the requirement of a major in a student's degree program. Credit hours applied to satisfy the requirements for a major may not be counted again as satisfying the requirements for an interdisciplinary minor. Unless otherwise indicated, students may apply up to 6 credit hours from courses that satisfy their major requirements to also satisfy the requirements for an interdisciplinary minor.

Students with a second major may, with the approval of the coordinator, count up to 6 semester hours applied to satisfy the requirements for one each of the majors toward the requirements for an interdisciplinary minor. Students electing … …. 

Rationale: The proposed changes are intended to address inequities with regard to restrictions applied to the interdisciplinary minors compared to departmental minors. These proposed changes are also consistent with the new PLUS guidelines which relax the restrictions regarding application of credits in the major department toward satisfying general education requirements. Removing this restriction will also encourage students to pursue interdisciplinary minors and obtain transcriptable documentation appropriate to their course work.

Minor in Classical Studies (24)

Requirements (24)
The interdisciplinary minor in classical studies … …. Courses must be focused on no more than three different subject areas. No course may be counted toward both the minor and the student’s major. Total semester hour requirements may be reduced if language courses are waived on the basis of high school preparation or placement examination. No more than 6 semester hours of courses offering general education credit may be counted towards electives.

Requirements (24)
Six or more semester hours in the minor must be taken at NIU.
Three classes (9 credits) from at least two departments; No more than 6 semester hours may be taken in any one nonlanguage area.

- ENGL 307 – Drama and Conflict (3) (classical focus)
- POLS 350 – Classical and Medieval Political Theory (3)

Rationale: The first deleted sentence is no longer necessary, given that credits from the major can now be applied toward the interdisciplinary minor. The second deleted sentence is not really necessary due to changes in the PLUS gen ed regulations, and the fact that only one of the courses listed within the minor is included in the list of gen ed classes. The new language (highlighted) is added to ensure that there is sufficient breadth of disciplines as appropriate for an interdisciplinary minor.

Other Catalog Change Page 197-198, 2015-16 Undergraduate Catalog

Minor in Cognitive Studies

Requirements (18-19)

At least five of the following, from at least three departments (15-16)

- ANTH 230 – Introduction to Linguistic Anthropology (3) (Available for general education credit.)
- ENGL 321 – Structure of Modern English (3)
- ENGL 322 – Language in American Society (3)
- ENGL 432 – Topics in General Linguistics (3) When topic is appropriate, with approval of coordinator.
- PSYC 345 – Cognitive Psychology (3)
- PSYC 360 – Motivation (3)
- PSYC 400 – Psychology of Language (3)

Rationale: Addition of two new courses to the list of electives based on content appropriate to the area of cognitive studies.

Impact Statement: The Departments of English and Psychology were consulted with regard to the addition of their courses to the Minor in Cognitive Studies. Neither department has identified any negative impact on course availability or enrollment with these changes.

Other Catalog Change Page 198, 2015-16 Undergraduate Catalog

Minor in Comparative Literature
Coordination: Liberal Arts and Sciences Advising and Counseling Office, Jeff Einboden, Department of English

Rationale: Updating information regarding the coordination of the minor.

Other Catalog Change Page 199-200, 2015-16 Undergraduate Catalog

Minor in Latino/Latin American Studies

The minor in Latino and Latin American Studies … …. The minor also provides other future professionals with knowledge to maximize their job performance in regions with Latino populations, Latino students enrolled in the minor also acquire a broader understanding of their history and culture. The 18 credits required for the minor must come from at least two departments, with no more than 12 credits from one department. Students participating in the Latino/Latin American Studies Minor may apply up to 9 credits from their major toward the minor.

Requirements (18)

Rationale: Limiting the number of credits from one department to 12 is intended to ensure a breadth of disciplinary perspective within the minor. The allowance for 9 credits from the major is included at the request of the Center for Latino and Latin American studies based on the fact that most courses in the list of electives have PRQs which constitute "hidden" requirements. Allowing the use of additional credits from the major department is an attempt to compensate for the PRQs for courses in other departments that cannot be applied toward the minor.

Other Catalog Change Page 200, 2015-16 Undergraduate Catalog

Minor in LGBT Studies

Students must complete 18 semester hours for this minor and are urged to complete WGST 101, LGBT 350 and LGBT 400 as early as possible. No more than 9 credits from the list of requirements can be applied toward both the LGBT minor and the WGST minor.

Rationale: Because of the significant overlap in the list of courses that can be used to satisfy the requirements for the LGBT and WGST minors, the revision to catalog language ensures that a student attempting to complete both minors will have at least a limited overlap in course work.

Other Catalog Change Page 200-201, 2015-16 Undergraduate Catalog

Minor in Linguistics
The student must select courses from at least two departments, with no more three courses from one department.

**Requirements (18-19)**

Additional Courses (9-15)
- ANTH 331 – Language and Culture (3)
- FLSP 302 – Advanced Composition in Spanish (3)
- FLSP 480 – Introduction to Hispanic Linguistics (3)
- FLSP 481 – Spanish Phonology (3)
- FLSP 482 – Foundations in Spanish Sociolinguistics (3)
- FLSP 485 – Spanish Syntax (3)
- FLSP 486 – Contrastive Grammatical Structures in Spanish and English (3)
- FLSP 487 – Hispanic Dialectology (3)
- FLSP 491 – History of the Spanish Language (3)
- FLST 181 – Elementary Language Instruction I (5)

Rationale: At present, it would be possible for a student to complete the Linguistics minor with 5 courses in ENGL and one course in ANTH, or some other department. This proposed change is to ensure adequate distribution of content appropriate for an interdisciplinary minor. The additional courses in FLSP are appropriate for inclusion in the Linguistics minor, and provide additional flexibility within the minor.

Impact Statement: The Department of Foreign Languages and Literatures was consulted with regard to the addition of their courses to the Minor in Linguistics. The department has not identified any negative impact on course availability or enrollment with these changes.
Students must complete 18 semester hours for this minor and are urged to complete WGST 101, WGST 202, and WGST 432 as early as possible. **No more than 9 credits from the list of requirements can be applied toward both the LGBT minor and the WGST minor.**

**Rationale:** Because of the significant overlap in the list of courses that can be used to satisfy the requirements for the LGBT and WGST minors, the proposed revision to catalog language ensures that a student attempting to complete both minors will have at least a limited overlap in coursework.

**Department of Biological Sciences**

**Course Revisions**

**Page 208, 2015-16 Graduate Catalog**

641. **PRACTICAL BIOINFORMATICS FOR BIOLOGISTS (3).** Hands-on experience using bioinformatics … ….

**PRQ: BIOS 302 or BIOS 308.**

683. **ANIMAL RESEARCH AND COMPARATIVE MEDICINE (3).** Fundamental concepts in animal research … ….

**PRQ: BIOS 213 or BIOS 355 or PSYC 300.**

**Rationale:** Undergraduate prerequisites are not necessary for graduate courses and never should have been listed on these courses.

**Other Catalog Change**

**Page 219, 2015-16 Undergraduate Catalog**

**Department of Biological Sciences (BIOS)**

**Degree with Biology Honors**

The degree Bachelor of Science … ….

3) Complete BIOS 370, Directed Research in Biology and 6 semester hours of either BIOS 495, Honors Biology Directed Research, Directed Research Biology Honors, or BIOS 499, Directed Research University Honors under a faculty member’s supervision;

**Rationale:** Correction of the title for BIOS 495 and addition of a University Honors option.

**Other Catalog Change**

**Page 203-206, 2015-16 Graduate Catalog**

**Department of Biological Sciences (BIOS)**

**Master of Science in Biological Sciences**

**Requirements for Degree without a Specialization**

BIOS 570X – General Biological Chemistry (3)
NORTHERN ILLINOIS UNIVERSITY
COLLEGE OF LIBERAL ARTS AND SCIENCES
CURRICULUM COMMITTEE
#4 Meeting – September 30, 2015
Approved Attachments

OR BIOS 572X – Biological Chemistry I (3)
AND BIOS 573X – Biological Chemistry II (3)

**OR** BIOS 670 – Biostatistical Analysis (3)
OR ETR 521 – Educational Statistics I (3)
AND ETR 522 – Educational Statistics II (3)

BIOS 761 – Seminar (1) (minimum of 2 semester hours of credit)

↓

**Specialization in Bioinformatics**
↓

**Requirements**

**BIOS 570X – General Biological Chemistry (3)**
OR BIOS 572X – Biological Chemistry I (3)
AND BIOS 573X – Biological Chemistry II (3)

OR BIOS 670 – Biostatistical Analysis (3)
OR ETR 521 – Educational Statistics I (3)
AND ETR 522 – Educational Statistics II (3)

BIOS 567 – Advanced Molecular Biology (3)
OR BIOS 638 – Molecular Genetics of Prokaryotes (3)

BIOS 570X – General Biological Chemistry (3)
BIOS 643 – Bioinformatics (3)
BIOS 646 – Programming for Bioinformatics (3)
BIOS 670 – Biostatistical Analysis (3)

OR ETR 521 – Educational Statistics I (3)
AND ETR 522 – Educational Statistics II (3)

BIOS 691 – Recombinant DNA Techniques Laboratory (4)

↓

**BIOS 670 – Biostatistical Analysis (3)**

OR ETR 521 – Educational Statistics I (3)
AND ETR 522 – Educational Statistics II (3)

BIOS 691 – Recombinant DNA Techniques Laboratory (4)

↓

**Specialization in Human Anatomical Sciences**
↓

**Required Courses**

**BIOS 570X – General Biological Chemistry (3)**
OR BIOS 572X – Biological Chemistry I (3)
AND BIOS 573X – Biological Chemistry II (3)

**OR BIOS 670 – Biostatistical Analysis (3)**
OR ETR 521 – Educational Statistics I (3)
AND ETR 522 – Educational Statistics II (3)

BIOS 545 – Human Histology (4)

↓

BIOS 629 – Human Embryology (3)
BIOS 670 – Biostatistical Analysis (3)

OR ETR 521 – Educational Statistics I (3)
AND ETR 522 – Educational Statistics II (3)

BIOS 761 – Seminar (2)
Specialization in Biology Teaching

Requirements

BIOS 570X – General Biological Chemistry (3)
  OR ETR 521 – Educational Statistics I (3)
  AND ETR 522 – Educational Statistics II (3)

BIOS 570X – General Biochemistry (3)

BIOS 605 – Institute for Science Teachers in Biology (3)

BIOS 770 – Independent Study (4-6),
  OR BIOS 699 – Master’s Thesis (4-6)

ETR 521 – Educational Statistics (3)
  AND ETR 522 – Educational Statistics II (3)

EPS 523 – Application of Psychological Research to Educational Practice (3)

Doctor of Philosophy in Biological Sciences

Requirements

BIOS 570X – General Biological Chemistry (3)
  OR BIOS 572X – Biological Chemistry I (3)
  AND BIOS 573X – Biological Chemistry II (3)
  OR BIOS 670 – Biostatistical Analysis (3)
    OR ETR 521 – Educational Statistics I (3)
    AND ETR 522 – Educational Statistics II (3)

BIOS 761 – Seminar (4) (to be taken for a minimum of 4 hours of credit, at least 2 of which shall be taken after the first 30 graduate-level semester hours in the student’s program)

If a student has completed the equivalent … ….

The Department of Biological Sciences research-tool requirement is fulfilled by completing BIOS 670 and/or either BIOS 570X or BIOS 572X and BIOS 573X, which are required for the doctoral program, plus one additional graduate-level course approved by the student’s doctoral committee.

The student must pass … ….

Following approval of the dissertation by the doctoral committee, acceptable copies must be submitted to the Graduate School.

Rationale: The origin of the requirement that graduate students in Biological Sciences take both a course in Biochemistry and a course in Biostatistics has been in existence at least since the establishment of the Ph.D. program in Biological Sciences in 1983 (32 years ago). The requirement was included in proposals for a Ph.D. program in Biological Sciences that were submitted in 1967, 1973 and 1980, and may have
been part of the BIOS Masters in Science program that began in 1951. At no point in that history (until now) has the rationale for that requirement been examined or reviewed. Since the Biochemistry/Bio-statistics requirement was implemented, there have been major programmatic and curriculum changes in the department. Currently, the Department of Biological Sciences is extremely broad-based with research and curricula areas spanning widely diverse areas of biology. These diverse areas require different skill sets and different training, such that “one-size-fits-all” is not appropriate (if it ever was). In particular, course work in Biochemistry is not always relevant to students in Conservation Biology, Paleobiology and Anatomy, and has only limited relevance for students in Ecology and Evolutionary Biology. Similarly, students in Cellular and Molecular Biology, Biomedical Science, Microbiology and Plant Molecular Biology do not typically require the types of advanced statistical analyses covered in graduate-level biostatistics. In discussing and evaluating the current requirements, the faculty of the Department of Biological Sciences reasoned that course work in areas more specifically relevant to a student’s research area would be more useful than the current broad-based (and somewhat political) requirements.

Other Catalog Change Page 314-315, 2015-16 Graduate Catalog

Interdisciplinary Academic Centers, Institutes, and Courses

Concentration in Biochemistry and Biophysics

The center is not a degree-offering … …. 

At the M.S. level, the student must successfully complete five three graduate courses (excluding thesis credit) dealing with biochemistry … …. 

At the Ph.D. level, the student must complete eight five graduate courses (excluding dissertation credit) dealing with … …. 

↓

All requirements for the concentration must be completed within a period of six consecutive years.

Biochemistry and Biophysics Courses
BIOS 511 – Plant Physiology (4) 
BIOS 513 – Microbial Physiology (3) 
BIOS 540 – Immunobiology (3) 
BIOS 550 – Molecular Biology of Cancer (3) 
BIOS 555 – Comparative Physiology (3) 
↓
BIOS 691 – Recombinant DNA Techniques Laboratory (4) 
BIOS 700K – Special Topics in Biology: Molecular Biology (1-9) 
BIOS 700M – Special Topics in Biology: Research Methods (3) 
CHEM 546 – Theoretical Chemistry (3) 
↓
CHEM 600E – Selected Topics in Chemistry: Biological (1-3) 
CHEM 622 – Analytical Separations (3)
CHEM 623 – Mass Spectrometry (3)
CHEM 624 – Optical Methods in Analytical Chemistry (3)
CHEM 631 – Organic Synthesis (3)
CHEM 632 – Physical Organic Chemistry (3)
CHEM 635 – Spectroscopic Identification of Organic Molecules (3)
CHEM 644 – Chemical Thermodynamics (3)
CHEM 645 – Kinetics (3)
CHEM 650 – Nanochemistry (3)
CHEM 670 – Enzymes (3)

↓

FCNS 646 – Micronutrients (3)
PHYS 531 – Medical Imaging (3)
PHYS 659 – Special Problems in Physics (1-10)
PSYC 581 – Drugs and Behavior (3)
PSYC 603 – Biopsychology (3)
PSYC 629 – Neurophysiological Bases of Behavior (3)
PSYC 630 – Neurochemical Bases of Behavior (3)

Rationale: CBBS is becoming more interdisciplinary in nature and is broadening its course offerings to serve that need. The reduction in the number of required courses for graduate students is also in keeping with the attempt to appeal to a broader graduate student population outside of the core in Biological Sciences and Chemistry.

Impact Statement: The Department of Biological Sciences has consulted with the Departments of Chemistry, Physics, and Psychology regarding the addition of their courses to the list of outside requirements in Biological Sciences. None of the departments identified any negative impact on course availability or enrollment with these changes.

Environmental Studies

Course Revision
450. ISSUES IN ENVIRONMENTAL STUDIES (3-6) Interdisciplinary approaches and perspectives on selected issues in environmental studies. Independent study and seminars. May be repeated to a maximum of 6 semester hours. PRQ: Completion of 15 semester hours comprising the ENVS core (ENVS 301, ENVS 302, ENVS 303, ENVS 304, and ENVS 305X) Consent of department.

Rationale: Students want to take topics in this course over different semesters and should be able to take the course twice.

Other Catalog Change
Department of Management (MGMT)
Minor in Social Entrepreneurship (21-30)
Requirements
ACCY 288 – Fundamentals of Accounting (3)

One of the Following (3)
ACCY 480 – Governmental and Not-For-Profit Accounting (3)

ENVS 304 – Environment Law, Policy & Economics (3)
ENVS 450 – Issues in Environmental Studies (3-6)

MGMT 335 – Managing Individuals, Teams, and Organizations (3)

Rationale: Change in credit hours for ENVS 450.

Notification: The Department of Management was notified with regard to this change via email on October 14, 2015.

Environmental Studies (ENVS)

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

Requirements in Environmental Studies (19)
ENVS 100 – Exploring the Environmental Studies Major (1)

Three semester hours from the following (3)
ENVS 450 – Issues in Environment Studies (3-6)

ENVS 499 – Senior Thesis: Honors (1-3)

Requirements outside Environmental Studies (B.A., 9-22; B.S., 15-16)

For the B.A. degree

CHEM 100 – Chemistry in Everyday Life (3)

OR CHEM 110 – Chemistry (3)

OR ISYE 100 – Fundamentals of Manufacturing Systems (3)

MATH 155 – Trigonometry and Elementary Functions (3)

OR MATH 211 – Calculus for Business and Social Science (3)

Emphasis 1. Biodiversity and Environmental Restoration (34-41)

Requirements outside Environmental Studies (14)
BIOS 103 – General Biology (3)

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

ANTH 425 – Environment and Anthropology (3)
Approved Attachments

↓
ECON 386 – Environmental Economics (3)
ENVS 435X – Gender and the Environment (3)
HIST 377 – American Environmental History (3)
PHIL 334 – Animal Ethics (3)
PHIL 335 – Environmental Ethics (3)
↓
Electives (18)
↓
Select at least one of the following conceptually-based courses (3)
ANTH 343 – Extinction: Where the Wild Things Were (3)
↓
BIOS 487 – Conservation Genetics (3)
GEOG 306 – Severe and Hazardous Weather (3)
GEOG 422 – Plant-Soil Interactions (4)
↓
Select at least one of the following methods-based courses (3)
CHEM 427 – Environmental Chemistry (3)
↓
GEOG 403 – Soils and Environmental Land Use Planning (3)
GEOG 406 – Natural Hazards and Environmental Risk (3)
GEOG 413 – Forest Ecology and Management (3)
↓
Select at least one of the following taxonomically-based courses (3)
ANTH 341 – Primatology (3)
↓
GEOL 471/BIOS 466X - Introduction to Micropaleontology (3)

Emphasis 2. Energy Studies (34)
↓
Requirements outside Environmental Studies (13)
GEOG 453 – Environmental Management (3)
ISYE 421 – Introduction to Green Engineering (3)
PHYS 210 – General Physics I (4)
OR PHYS 253 – Fundamentals of Physics I: Mechanics (4)
TECH 484 – Energy Management (3)
TECH 417 – Design for Energy Efficiency and Green Materials (3)
Select three of the following technology/engineering-based courses (9)
ISYE 421 – Introduction to Green Engineering (3)
ISYE 453 – Integrated Product and Process Design (3)
↓
TECH 432 – Disaster Preparedness (3)
Select three of the following applications and natural science-based courses (9)
BIOS 106 – Environmental Biology (3)
↓
GEOG 368 – Climate Change: Science, Impacts and Mitigation (3)
GEOG 406 – Natural Hazards and Environmental Risk (3)
GEOG 459 – Geographic Information Systems (3)

Select one of the following law/policy courses (3)
- POLS 220 – Introduction to Public Policy (3)
- POLS 324 – Politics of Environmental, Health, and Safety Regulation (3)


This emphasis is designed to give students broad exposure to how the environment is represented and researched in the social sciences and humanities. This includes a wide-ranging examination of environmental issues through time and from diverse perspectives in order to provide students the ability to better understand and critically assess contemporary environmental challenges. An underlying theme is the critical examination of the notion of sustainability as a potential principle underlying and guiding human interaction with the environment. Throughout the emphasis, issues of sustainability as they relate to rural/urban linkages will be emphasized.

In this emphasis, students will study environmental issues through time and from diverse perspectives, preparing them to better understand and critically assess contemporary environmental challenges. The emphasis gives students broad exposure to how the environment is represented and researched in the social sciences and humanities. Throughout the emphasis, students will critically examine the notion of sustainability as a potential principle underlying and guiding human interaction with the environment. Students will investigate local and global manifestations of environmental problems and explore how rural/urban linkages influence sustainability.

**Requirements outside Environmental Studies (15)**

Select one of the following humanities courses (3)
- ENGL 360 – Literature and other Disciplines (3)
- ENGL 400 – Literary Topics+ (3)
- HIST 377 – American Environmental History (3)
- PHIL 335 – Environmental Ethics (3)
  OR PHIL 334 – Animal Ethics (3)
- WGST 435 – Gender and the Environment
  OR ENVS 435X – Gender and the Environment (3)

Select two of the following communication and writing courses (6)
- COMS 355 – Media Writing (3)
- JOUR 490 – Ethnic Minorities and the News Media (3)

**Electives (15)**

Select at least two of the following humanities courses (6)
- ENGL 322 – Language in American Society (3)
- WGST 430 – Special Topics in Women’s and Gender Studies (3)
- WGST 432 – Feminist Theory (3)

Select one of the following science, engineering, and technology courses (3-4)
BIOS 106 – Environmental Biology (3)

TECH 245 – Pollution Prevention and Sustainable Production (3)

Emphasis 4. Environmental Policy (30-31)

Requirements outside Environmental Studies (9)

Select one of the following humanities courses (3)
- ENVS 435X – Gender and the Environment (3)
- HIST 377 – American Environmental History (3)
- PHIL 334 – Animal Ethics (3)
- PHIL 335 – Environmental Ethics (3)
- PHIL 360 – Philosophy of Science (3)

Electives (21-22)

Select at least two of the following humanities courses (6-9)
- HIST 323 – History of Science to Newton (3)
- PHIL 331 – Ethics (3)
- PHIL 334 – Animal Ethics Credits (3)
- PHIL 335 – Environmental Ethics (3)
- PHIL 450 – Topics in Social and Political Philosophy (3)
- WGST 432 – Feminist Theory (3)
- WGST 435 – Gender and the Environment (3)

OR ENVS 435X – Gender and the Environment (3)

Select one of the following science, engineering, and technology courses (3-4)
- BIOS 106 – Environmental Biology (3)
- TECH 245 – Pollution Prevention and Sustainable Production (3)

Emphasis 5. Non-Government Organization (33-34)

This emphasis is linked with the new major in community leadership and civic engagement (CLCE). This emphasis is designed for students who are interested in seeking a career in public affairs in government, voluntary social agencies, and public interest groups that focus on environmental or energy issues.

Requirements outside Environmental Studies (9)
- CLCE 100 – Community Leadership and Civic Engagement (3)
  (Available for general education credit.)
- CLCE 410 – Nonprofits and Community Engagement (3)
- POLS 326 – Nonprofit Management (3)
  OR PSPA 326X – Nonprofit Management (3)

Select three of the following foundations courses (9)
ANTH 329—Anthropology and Contemporary World Problems (3)
ANTH 464—Disasters without Borders (3)
OR CLCE 464X—Disasters without Borders (3)
ANTH 467—Applied Anthropology (3)
CLCE 350—Community Organizations in a Digital World (3)
CLCE 429—International NGOs and Globalization (3)
COMS 362—Intercultural Communication (3)
GEOG 453—Environmental Management (3)
POLS 326—Nonprofit Management (3)
OR PSPA 326X—Nonprofit Management (3)
PSPA 201—Public Service Leadership (3)
PSPA 301—Philanthropy and Volunteerism (3)
PSPA 402—Resource Strategies for Nonprofit Organizations (3)
OR MGMT 402X—Resources Strategies for Nonprofit Organizations (3)

Select at least two of the following communication and writing courses (6)

COMS 304—Introduction to Persuasion Theory (3)
COMS 361—Business and Professional Communication (3)
COMS 362—Intercultural Communication (3)
COMS 419—Political Communication in America (3)
ENGL 303—Writing Creative Nonfiction (3)
ENGL 308—Technical Writing (3)
ENGL 493—Writing Creative Nonfiction II (3)

Select one of the following science, engineering, and technology courses (3–4)

BIOS 106—Environmental Biology (3)
BIOS 406—Conservation Biology (4)
CHEM 427—Environmental Chemistry (3)
ENVS 409—Water Quality (4)
OR BIOS 409X—Water Quality (4)
OR GEOL 409X—Water Quality (4)
OR PHHE 409X—Water Quality (4)
GEOG 253—Environment and Society (3)
GEOG 303—Water Resources and the Environment (3)
GEOG 315X—Geography of Energy (3)
OR ENVS 315—Geography of Energy (3)
GEOG 368—Climate Change: Science, Impacts, and Mitigation (3)
GEOG 455—Land-Use Planning (3)
GEOG 320—Environments and Life Through Time (4)
OR GEOL 322—Paleogeography, Paleoclimatology, Paleoecology (4)
MEE 101—Energy and the Environment (3)
TECH 245—Pollution Prevention and Sustainable Production (3)

Select two of the following humanities and social sciences courses (6)

ANTH 343—Extinction: Where the Wild Things Were (3)
OR ENVS 343X—Extinction: Where the Wild Things Were (3)
ANTH 401—Peoples and Cultures of the Caribbean (3)
ANTH 425—Environment and Anthropology (3)
OR ENVS 425X—Environment and Anthropology (3)
ANTH 432—Nature and the Environment Across Cultures (3)
Emphasis 6. Water Sciences (37-41)

Requirements outside Environmental Studies (13)

GEOG 101 – Survey of Physical Geography (3)

GEOL 390 – Introduction to Groundwater (3)
OR GEOL 490 – Hydrogeology (3)

ENVS 409 – Water Quality (4)

Select three of the following conceptually-based courses (9-11)

ANTH 343 – Extinction: Where the Wild Things Were (3)

BIOS 448 – Aquatic Ecology (4)

GEOG 306 – Severe and Hazardous Weather (3)

GEOL 421 – Environmental Geochemistry (3)

GEOL 496 – Geophysics (3)

Select at least one of the following methods-based courses (3)

GEOG 302 – Soil Science (4)

GEOG 403 – Soils and Environmental Land Use Planning (3)

GEOG 406 – Natural Hazards and Environmental Risk (3)

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

ANTH 425 – Environment and Anthropology (3)

SOCI 364 – Environmental Sociology (3)

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

Emphasis 7. Educator Licensure - Environmental Science (95)

Rationale: CHEM 110: Addition of this course for BA students will allow for more flexibility to move between BA and BS programs. Students in the BS programs need CHEM 210/211/212/213 and CHEM 110 is one of the PRQ.
Energy Studies Emphasis: Buyung Agusdinata will be leaving NIU in January therefore ISYE 421 may not be taught. TECH 417 is taught by joint appointment faculty and will be taught once a year. The course covers material that is still important for Energy Studies emphasis.

NGO Emphasis: Currently there are only 2 students in the emphasis and over the life of the program we have 2 students finish this emphasis. There is also an emphasis in CLCE on environment which overlaps from a student perspective. We decided to delete this emphasis. CLCE approves of this change. Students will be advised to minor in CLCE or get the certificate if they are interest in NGO. With the deletion of emphasis 5, this changes the number of water science to 5 and teacher Licensure to 6. Human Experience Emphasis: The name was never liked by students. After looking through the scholarly disciplines associated with this emphasis, the title of Nature in Society was chosen. It is a recognized field of study. With the change in name, we have updated the description of the emphasis to better describe it.

PHIL 334: Animal Ethics was added throughout the major where ever PHIL 334 Environmental Ethics is taught. These courses are taught on alternating years so will give students a chance to take ethics while at NIU. This was approved by PHIL.

GEOL 490: Hydrogeology was added to the Water Science emphasis. GEOL 390 Introduction to Groundwater and GEOL 490 in the future might be taught every other year. This will allow more flexibility for students. This was approved by GEOL.

GEOG 406: Natural Hazards and Environmental Risk was added throughout the major. The course covers material of interest to ENVS students. This was approved by GEOG.

ENVS 435X: New course added throughout our curriculum.

WGST 432: Feminist Theory was asked to be removed from our curriculum due to the number of PRQ. This was approved by ENVS.

Impact Statement: Environmental Studies has consulted with the Departments of Chemistry, Geology, Geography, Philosophy, Technology, and Women's, Gender and Sexuality Studies regarding the addition of their courses to the list of outside requirements in Environmental Studies. None of the departments identified any negative impact on course availability or enrollment with these changes.

Division of Statistics

New Course Page 303, 2015-16 Undergraduate Catalog

CIP: 27.0501

STAT 324X. INTRODUCTION TO BUSINESS DATA ANALYTIC TOOLS (3). Cross listed as OMIS 324. This course is an introduction to business analytic tools focusing on sampling.
multivariate regression, factor analysis and cluster analysis to identify and solve business problems. PRQ: UBUS 223 or STAT 301.

Rationale: The 2013 AACSB standards recommend undergraduate programs to include data analytics in their curricula. The increase in "Big Data" is driving the need for business professionals to know how business data is created, collected, stored, and accessed. Further, business professionals are expected to know how to use statistics/quantitative methods on this vast source of data to make better business decisions and identify potential opportunities and risks.