NORTHERN ILLINOIS UNIVERSITY
COLLEGE OF LIBERAL ARTS AND SCIENCES
CURRICULUM COMMITTEE
Virtual Meeting – October 17, 2012
Approved Minutes

Present: S. Doederlein (CLAS), D. Ballantine (CHEM), J. Groves (ECON), F. Jaeger (FL&L), M. Lenczewski (GEOL)

Absent: W. Creamer (ANTH), D. Macdonald (ENGL)

A. Action on Minutes

Minutes from the #4 meeting on October 3, 2012, have been approved and forwarded to the catalog editor.

B. Curriculum – Old Business

College of Liberal Arts and Sciences

The Gen Ed Submission for LGBT 350 was tabled again. The committee members would still like further justification with regard to categorizing it as an interdisciplinary general education course.

Department of Biological Sciences

Course deletions for BIOS 104, 205, 207, and 300 were approved. New course proposals for BIOS 302, 303, 304, 410, 419, 438, and 610 were also approved. The new course proposal for BIOS 619 was tabled pending clarification of grading requirements and updated grading scale.

Department of Chemistry and Biochemistry

New course proposals for CHEM 333 and 339 were approved. The committee also approved revisions to the program description, the deletion of emphasis 3, and changes to the remaining emphases.

Department of History

The new course proposal for HIST 304 was approved. New course proposals for HIST 355 and HIST 395 were tabled again until further information is provided by the department with regard to non-duplication and how percentage points translate into grades.

Department of Political Science

The committee approved new course proposals for POLS 210, 353T and 692. The general education submission for POLS 210 was also approved.
C. Curriculum – New Business

College of Liberal Arts and Sciences

Revisions to the B.S. sequence and pre-professional course suggestions were approved by the committee.

Department of Anthropology

The new course proposals for ANTH 423 and 523 were tabled until the department provides an explanation of the grade distribution and difference between undergrad and graduate assessments.

Department of Geology and Environmental Geosciences

Course revisions were tabled for GEOL 600, 620, 644, 647, 675, 680, 725, and 730. The committee had concerns with regard to changes in the pre-requisites.

Tabled:

CLAS – Gen Ed Credit Submission: LGBT 350

ANTH – New Course Proposal: ANTH 423
    New Course Proposal: ANTH 523

BIOS – New Course Proposal: BIOS 619

GEOL – Course Revision: GEOL 600
    Course Revision: GEOL 620
    Course Revision: GEOL 644
    Course Revision: GEOL 647
    Course Revision: GEOL 675
    Course Revision: GEOL 680
    Course Revision: GEOL 725
    Course Revision: GEOL 730

HIST – New Course Proposal: HIST 355
    New Course Proposal: HIST 395
COLLEGE OF LIBERAL ARTS AND SCIENCES

Other Catalog Changes: Page 185, 2012-13 Undergraduate Catalog

College of Liberal Arts and Sciences

College Requirement for the B.S. Degree

3. *MATH 206 or *MATH 210, *MATH 211, and a two-semester laboratory sequence in other than the major department to be met by one of the following sequences.
   *BIOS 104 and BIOS 205, BIOS 207, BIOS 213, OR BIOS 357
   *CHEM 210 and *CHEM 212, *CHEM 211 and *CHEM 213

4. *MATH 229 and a two-semester laboratory sequence in other than the major department to be met by one of the following sequences.
   *BIOS 104 and BIOS 205, BIOS 207, BIOS 213, OR BIOS 357
   *CHEM 210 and *CHEM 212, *CHEM 211 and *CHEM 213

5. *MATH 211, STAT 301, and a two-semester laboratory sequence in other than the major department to be met by one of the following sequences.
   *BIOS 104 and BIOS 205, BIOS 207, BIOS 213, OR BIOS 357
   *CHEM 210 and *CHEM 212, *CHEM 211 and *CHEM 213

Pre-dentistry

Biology – 1½ years, with laboratory (*BIOS 205/BIOS 207, BIOS 208/BIOS 210, and BIOS 209/BIOS 211)
Chemistry – 2 years, general and organic (CHEM 210/CHEM 212, CHEM 330, CHEM 331, CHEM 332, and CHEM 211/CHEM 213)

Pre-medicine and Pre-osteopathy

Biology – 2 years, with laboratory (BIOS 205/BIOS 207, BIOS 208/BIOS 210, and BIOS 209/BIOS 211, and BIOS 355)
Chemistry – 2 years, general and organic (CHEM 210/CHEM 212, CHEM 330, CHEM 331, CHEM 322, and CHEM 211/CHEM 212)

Pre-optometry

Biology – 1½ years, with laboratory (BIOS 205/BIOS 207, BIOS 208/210, and BIOS 209/BIOS 211)
Chemistry – 2 years, general and organic (CHEM 210/CHEM 212, CHEM 211/CHEM 213, CHEM 330, CHEM 331, CHEM 332)
Pre-pharmacy
↓
One-Year Program
Biology – 1 year, with laboratory (BIOS 205/BIOS 207)
Chemistry – 1 year, with laboratory (CHEM 210/CHEM 212 and CHEM 211/CHEM 213)
↓
Pre-podiatry
↓
Biology - 1½ years, with laboratory (BIOS 205/BIOS 207; BIOS 208/BIOS 210, and BIOS 209/BIOS 211)
Chemistry – 2 years, general and organic (CHEM 210/CHEM 212, CHEM 211/CHEM 213, CHEM 330, CHEM 331, CHEM 332)
↓
Pre-veterinary Medicine
↓
Biology – 2½ years, including zoology and genetics (BIOS 205/BIOS 207, BIOS 208/BIOS 210, and BIOS 209/BIOS 211, BIOS 308, and BIOS 355)
Chemistry – 2 years, general and organic (CHEM 210/CHEM 212, CHEM 211/CHEM 213, CHEM 330, CHEM 331, CHEM 332)
↓
DEPARTMENT OF BIOLOGICAL SCIENCES

Course Deletions: Page 205-206, 2012-13 Undergraduate Catalog

BIOS 104. GENERAL BIOLOGY (4).

BIOS 205. ORGANISMAL DIVERSITY (3).

BIOS 207. ORGANISMAL DIVERSITY LABORATORY (1).

BIOS 300. CELL BIOLOGY (4).

New Courses: Page 206-207, 2012-13 Undergraduate Catalog

CIP Code: 26.01

BIOS 302. MOLECULAR BIOLOGY (3). Fundamentals of molecular biology including the structure of DNA and RNA, mechanisms of DNA replication, transcription and translation, gene organization, genetic variation and repair, and regulation of gene expression. PRQ: BIOS 208, BIOS 209, BIOS 210, BIOS 211, CHEM 211, and CHEM 213.

BIOS 303. CELL BIOLOGY (3). Cell structure and function including macromolecules, biochemistry, energy conversions, membranes, cellular organelles, cytoskeleton, signal transduction, and cell death. Not available for credit to students with previous credit in BIOS 300. PRQ: BIOS 208, BIOS 209, BIOS 210, BIOS 211, CHEM 211, and CHEM 213.
Rationale: The current BIOS 300 has been judged to be insufficient to deliver the volume of material that students need to succeed in more advanced classes (for example, BIOS 465 and 467). In particular, the desire was to expand the coverage of molecular biology at the 300-level. To accommodate this expansion, we are proposing to split BIOS 300 into a molecular course (BIOS 302) and a cellular structure and function course (BIOS 303). This split will also alleviate the current problem associated with teaching BIOS 467, which now contains a very diverse group of students including graduates, undergraduates with little molecular background, and biochemistry students. With BIOS 302 as a prerequisite, all students entering BIOS 467 would then have a common background and BIOS 467 can then be taught at an advanced level to the benefit of all.

Non-Duplication: There is no duplication of other courses on campus. BIOS 302 and 303 are simply expansions of BIOS 300, which was already in the catalog.

BIOS 304. MOLECULAR CELL BIOLOGY LAB (3). Laboratory course designed to give students experience in the broad range of modern experimental methods, procedures, and techniques required in the field. One hour of lecture and two 3-hour laboratory periods per week. PRQ or CRQ: BIOS 302 and BIOS 303.

Rationale: An optional advanced lab was judged to be necessary for those students who intend to pursue a research career. Currently, the department lacks a formal cell-molecular laboratory course and the addition of BIOS 304 to coincide with BIOS 302 and BIOS 303 will rectify that limitation in the program. Non-Duplication: The Department of Chemistry and Biochemistry was notified with regard to this course and responded indicating no conflict.

BIOS 410. FOOD AND INDUSTRIAL MICROBIOLOGY (3). Fundamental aspects of microorganisms (including viruses and prions) associated with foods and the food industry. Topics will include isolation and enumeration of microorganisms in food, microbial species that are important to the food industry, techniques for preventing and controlling microbial contamination of foods, and procedures for reducing health hazards associated with food contamination. PRQ: BIOS 313.

Rationale: Microbiology is one of the four core emphases of the Department of Biological Sciences, and food and industrial microbiology an important branch of the field. Food microbiology is also an employable career since there will always be microbes associated with food whether in a good or bad manner. This is a particularly attractive career in the Chicago region due to abundance of food industries in the area. Offering a food and industrial microbiology course will help to prepare our students for developing a career in this important field.

Non-Duplication: The Department of Family, Consumer and Nutrition Sciences and the School of Nursing and Health Education were notified with regard to this course. Both departments responded indicating no conflict.

BIOS 419. MICROBIAL SYSTEMATICS AND DIVERSITY (3). Understanding the metabolic diversity of bacteria and archaea through selective culturing, isolation, and determinative testing. Through a weekly lecture and two three-hour laboratory sessions, students will cultivate and characterize microbial species of importance to the environment, human health, and the food and biofuel/bioenergy industries. PRQ: BIOS 313.
Rationale: As microorganisms are a driving force for environmental change, human health, and the growing boom in biofuel/bioenergy development, it is increasingly important that future researchers understand the metabolic capabilities of the 30+ bacterial and archaeal phyla. Through selective culturing, serial isolation and phenotypic characterization, students will learn first-hand how organisms take advantage of and compete for resources. This intimate relationship with microbes will provide students with an appreciation and deep understanding for microbial metabolism and, ultimately, the required knowledge to excel in their future career in research or the health/biotech/biofuel industry.

Non-Duplication: The Department of Geology and Environmental Geosciences and the School of Nursing and Health Sciences were notified with regard to this course. Both departments responded indicating no conflict.


Rationale: This will be the undergraduate version of the graduate course BIOS 635 of the same name. The courses will be linked and taught at the same time. BIOS 438 will provide advanced undergraduate microbiology students with preparation for graduate school and research careers in a rapidly expanding area of biology. A combined BIOS 438 (undergrad) and BIOS 635 (grad) offering will also provide the necessary enrollment to allow the course to be taught on a predictable schedule.

Non-Duplication: There is no duplication of other courses on campus. This course is the linked undergrad equivalent of BIOS 635 which is already on the books.

BIOS 610. FOOD AND INDUSTRIAL MICROBIOLOGY (3). Fundamental aspects of microorganisms (including viruses and prions) associated with foods and the food industry. Topics will include isolation and enumeration of microorganisms in food, microbial species that are important to the food industry, techniques for preventing and controlling microbial contamination of foods, and procedures for reducing health hazards associated with food contamination.

Rationale: Microbiology is one of the four core emphases of the Department of Biological Sciences, and food and industrial microbiology an important branch of the field. Food microbiology is also an employable career since there will always be microbes associated with food whether in a good or bad manner. This is a particularly attractive career in the Chicago region due to abundance of food industries in the area. Offering a food and industrial microbiology course will help to prepare our students for developing a career in this important field.

Non-Duplication: The Department of Family, Consumer and Nutrition Sciences and the School of Nursing and Health Education were notified with regard to this course. Both departments responded indicating no conflict.
Course Revisions: Page 206 & 208, 2012-13 Undergraduate Catalog

322X. POLITICS AND THE LIFE SCIENCES (3). Crosslisted as POLS 322. Analysis of the major social… …Recommended: At least sophomore standing, BIOS 103, BIOS 106, BIOS 109, or BIOS 205 and BIOS 207.

466X. INTRODUCTION TO MICROPALAEONTOLOGY (3). Crosslisted as GEOL 471. Morphology, classification,… …PRQ: BIOS 205 and BIOS 207, BIOS 209 and BIOS 211 and GEOL 320, or consent of department.

Other Catalog Changes:

Rationale: Deletion of BIOS 104 – All University Changes

Limited Admissions Requirements
↓
Early Childhood Studies Interdisciplinary Major (Department of Special and Early Education/School of Family, Consumer, and Nutrition Sciences)
↓
Additional prerequisites for emphasis in 04 certification (12-16)
*Bios 103, General Biology (3), OR *BIOS 104, General Biology (4), OR *BIOS 109, Human Biology (3)
*ETT 229, Computers in Education (3), or pass the ETRA Skills
↓
Nursing Major (School of Nursing and Health Studies)
↓
Prerequisite Courses Used in Evaluating Applicants
*BIOS 104, General Biology (4),
BIOS 213, Introduction to Bacteriology (3), OR BIOS 313, Microbiology (4)
BIOS 357, Human Anatomy and Physiology (5)

University Graduation Requirements
↓
Science and Mathematics (7-11)
↓
BIOS 104. GENERAL BIOLOGY (4).
↓
FCNS 201. HUMAN NUTRITION (3). Role of nutrition… … PRQ: One year of high school chemistry and BIOS 103, BIOS 104, or BIOS 109, or equivalent.
↓
FCNS 406. GLOBAL FOOD AND NUTRITION ISSUES (3). Interdisciplinary study… … PRQ: BIOS 103, BIOS 104, or BIOS 109 and ANTH 120 or SOCI 170 or equivalent.
General Education Course Titles
↓
Sciences and Mathematics (7-11)
Students must earn from 7 to 11 semester hours in the sciences and mathematics area in courses taken in at least two but no more than three departments. General education credit for STAT 208 is credited in the Department of Mathematical Sciences.

ANTH 240 - General Physical Anthropology (3)
BIOS 103 - General Biology (3)
BIOS 104 - General Biology (4)
BIOS 105 - General Biology Laboratory (1)

Department of Kinesiology and Physical Education (KNDN, KNPE, LESM)
↓
Major in Athletic Training (B.S.)
↓
Requirements outside Department (22-24)
AHCD 318 - Medical Terminology (3)
*BIOS 104 - General Biology (4),
  OR *BIOS 103 - General Biology (3),
  OR BIOS 208 - Fundamentals of Biology (3)
  AND BIOS 210 - Fundamentals of Biology I Laboratory (1)
BIOS 311 - Functional Human Anatomy (4),
↓
Major in Kinesiology (B.S.)
↓
Requirements outside Department (19-20)
*BIOS 104 - General Biology (4)
*CHEM 110 - Chemistry (3)

School of Family, Consumer, and Nutrition Sciences (FCNS)
↓
Comprehensive Major in Family and Child Studies (B.S.)
↓
Emphasis 3. Child Development
↓
Requirements outside School (15-17)
*BIOS 103 - General Biology (3),
  OR *BIOS 104 - General Biology (4),
  OR *BIOS 109 - Human Biology (3)
*PSYC 102 - Introduction to Psychology (3)
↓
Comprehensive Major in Nutrition, Dietetics, and Hospitality Administration (B.S.)
↓
Emphasis 1. Hospitality Administration

Requirements outside School (34-36)
ACCY 206 - Introductory Financial Accounting (3),
   OR ACCY 288 - Fundamentals of Accounting (3)
*BIOS 103 - General Biology (3),
   OR *BIOS 104 - General Biology (4),
   OR *BIOS 109 - Human Biology (3)
*CHEM 110 - Chemistry (3),
   OR *CHEM 210 - General Chemistry I (3)

Emphasis 2. Nutrition and Dietetics

Requirements outside School (43-45)
*BIOS 104 - General Biology (4)
BIOS 213 - Introductory Bacteriology (3),
   OR BIOS 313 - Microbiology (4)

Teacher Certification Family and Consumer Sciences

Requirements outside School (25-29)
*BIOS 103 - General Biology (3),
   OR *BIOS 104 - General Biology (4),
   OR *BIOS 106 - Environmental Biology (3)
   OR *BIOS 109 - Human Biology (3)
*CHEM 110 - Chemistry (3)

Interdisciplinary Major in Early Childhood Studies (B.S.)

Requirements outside School (9-10)
*BIOS 103¹ - General Biology (3),
   OR *BIOS 104¹ - General Biology (4),
   OR *BIOS 109¹ - Human Biology (3)
*POLS 1001 - American Government and Politics (3),
   OR *POLS 1501 - Democracy in America (3)

Minors

General Minor (18-19)
*BIOS 103 - General Biology (3),
   OR *BIOS 104 - General Biology (4)
   OR *BIOS 109 - Human Biology (3)
*FCNS 201 - Human Nutrition (3),
   OR FCNS 405 - Child Health and Nutrition (3)
Major in Nutrition, Dietetics, and Hospitality Administration

FCNS 200A - Principles of Food Preparation (3)

*BIOS 103 - General Biology (3),
  OR *BIOS 104 - General Biology (4),
  OR *BIOS 109 - Human Biology (3),
  OR BIOS 311 - Functional Human Anatomy (4),
  OR BIOS 357 - Human Anatomy and Physiology (5)

Course List

Nutrition, Dietetics, and Hospitality Administration

201. HUMAN NUTRITION (3). Role of nutrition… … PRQ: One year of high school chemistry and BIOS 103, BIOS 104, BIOS 109, BIOS 208, or equivalent.

309. SCIENCE OF NUTRITION (3). Study of various… …PRQ: CHEM 230 or CHEM 330, and BIOS 104. CRQ: BIOS 357.

406. GLOBAL FOOD AND NUTRITION ISSUES (3). Interdisciplinary study… …PRQ: BIOS 103, BIOS 104, or BIOS 109 and ANTH 120 or SOCI 170 or equivalent.
NORTHERN ILLINOIS UNIVERSITY
COLLEGE OF LIBERAL ARTS AND SCIENCES
CURRICULUM COMMITTEE
Virtual Meeting – October 17, 2012
Approved Attachments

↓ GEOG 413. FOREST ECOLOGY AND MANAGEMENT (3). Forest species… … PRQ: GEOG 322 or BIOS 103 or BIOS 104, or consent of department.

GEOG 422. PLANT-SOIL INTERACTIONS (4). Crosslisted as BIOS 422X. Chemical and physical properties… …PRQ: BIOS 103 or BIOS 104, and GEOG 302, or consent of department.

Department of Psychology (PSYC)
↓ Major in Psychology (B.A. or B.S.)
↓ Group 3
↓ A two-semester laboratory sequence to be met by one of the following sequences (7-9)
*BIOS 104 - General Biology (4), and BIOS 205 - Organismal Diversity (3), and BIOS 207 - Organismal Diversity Laboratory (1)
OR BIOS 213 - Introductory Bacteriology (3),
OR BIOS 357 - Human Anatomy and Physiology (5)
*CHEM 210 - General Chemistry I (3), and *CHEM 212 - General Chemistry Laboratory I (1),
↓
Course List
↓ PSYC 431. PHYSIOLOGICAL PSYCHOLOGY (4). Crosslisted as BIOS 431X. Understanding the physiological… …At least junior standing, PSYC 305, and either BIOS 104 or PSYC 300; or consent of department.

Illinois Articulation Initiative Core Curriculum
↓ Physical and Life Sciences
BIOS 101 - Plant Products and Human Affairs L1 901
BIOS 103 - General Biology L1 900
BIOS 104 - General Biology L1 900L
BIOS 105 - General Biology Laboratory L1 900L
↓

Other Catalog Changes:
Rationale: Deletion of BIOS 205 and BIOS 207 – All University Changes

School of Nursing and Health Studies (NURS, PHHE)
↓ Major in Public Health (B.S.)
Emphasis 3. Environment and Health
Requirements outside School (27-31)
GEOG 406 - Natural Hazards and Environmental Risk (3)
Course work from the following. Cannot select courses previously taken to satisfy other major or emphasis requirements (6-8).

BIOS 205 - Organismal Diversity (3), and BIOS 207 - Organismal Diversity Laboratory (1)
BIOS 208 - Fundamentals of Biology I (3), and BIOS 210 - Fundamentals of Biology I Laboratory (1)

Department of Biological Sciences (BIOS)
Course List
205. ORGANISMAL DIVERSITY (3).
207. ORGANISMAL DIVERSITY LABORATORY (1).

322X. POLITICS AND THE LIFE SCIENCES (3). Crosslisted as POLS 322. Analysis of the major social… …Recommended: At least sophomore standing. BIOS 103, BIOS 106, BIOS 109, or BIOS 205 and BIOS 207.

466X. INTRODUCTION TO MICROPALAEONTOLOGY (3). Crosslisted as GEOL 471. Morphology, classification,… …PRQ: BIOS 205 and BIOS 207 BIOS 209 and BIOS 211 and GEOL 320, or consent of department.

Department of Chemistry and Biochemistry (CHEM)
Major in Chemistry (B.S.)
Emphasis 2. Secondary Teaching
Recommendations
BIOS 205 - Organismal Diversity (3), and BIOS 207 - Organismal Diversity Laboratory (1)
BIOS 208 - Fundamentals of Biology I (3), and BIOS 210 - Fundamentals of Biology I Laboratory (1)
Emphasis 3. Environmental Science Teaching
In addition, students seeking environmental science teaching certification are also required to take BIOS 205 - Organismal Diversity (3), and BIOS 207 - Organismal Diversity Laboratory (1)
BIOS 208 - Fundamentals of Biology I (3), and BIOS 210 - Fundamentals of Biology I Laboratory (1)
Emphasis 4. Chemistry for Pre-Professional Students
Requirements outside Department (40)

↓

BIOS 205 – Organismal Diversity (3), and BIOS 207 – Organismal Diversity Laboratory (1)

BIOS 208 and BIOS 209 - Fundamentals of Biology I and II (6),
    and BIOS 210 and BIOS 211 - Fundamentals of Biology I and II

Page 262, 2012-13 Undergraduate Catalog

Footnote: ² With written approval of the departmental undergraduate adviser, students with a special interest in ecology and/or paleontology may substitute BIOS 205 and BIOS 208 for PHYS 210 and PHYS 211 (or PHYS 253 and PHYS 273).

Page 266, 2012-13 Undergraduate Catalog

Department of Geology and Environmental Geosciences

↓ Course List

↓ 468. GEOMICROBIOLOGY (3). Crosslisted as BIOS 468X. Role of … …PRQ: GEOL 120 or BIOS 205, or consent of department.

Page 303, 2012-13 Undergraduate Catalog

Department of Psychology (PSYC)

↓ Major in Psychology (B.S. or B.S.)

↓ Group 3

↓ A two-semester laboratory sequence to be met by one of the following sequences (7-9)
  *BIOS 104 - General Biology (4), and BIOS 205 – Organismal Diversity (3), and BIOS 207 – Organismal Diversity Laboratory (1)
    OR BIOS 213 - Introductory Bacteriology (3),
    OR BIOS 357 - Human Anatomy and Physiology (5)

Other Catalog Changes:

Rationale: Deletion of BIOS 300 – All University Changes

Page 204, 2012-13 Undergraduate Catalog

Department of Biological Sciences (BIOS)

↓ Admission and Retention Requirements in the Discipline
Students interested in... In addition, those seeking certification must complete the equivalent of the mathematics sequence MATH 211 and STAT 301, BIOS 300, BIOS 305, BIOS 313,... departmental certification adviser.

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

New Courses: Page 214, 2012-13 Undergraduate Catalog

CIP Code: 40.05

CHEM 333. GENERAL ORGANIC LABORATORY II (1). Continuation of CHEM 332. laboratory techniques. Not available for credit for emphasis 1 or emphasis 2 majors. Two One 3-hour period a week. CRQ: CHEM 331 or CHEM 337.

Rationale: Previously, the organic chemistry labs were offered as a one-semester, two-credit lab. Reconfiguration of the organic lecture/laboratory offerings makes them more consistent with organic chemistry offerings in other institutions, and improves correlation between lecture / laboratory content. Furthermore, it allows students a little more flexibility with regard to scheduling other required courses.

Non-Duplication: There is no duplication of other courses on campus. No other departments on campus offer an organic laboratory experience.

CHEM 339. ORGANIC CHEMISTRY LABORATORY II (1). Continuation of CHEM 338. One 3-hour period a week. Not available for credit for those having credit for CHEM 333. CRQ: CHEM 330 or CHEM 336.

Rationale: Previously, the organic chemistry labs were offered as a one-semester, two-credit lab. Reconfiguration of the organic lecture/laboratory offerings makes them more consistent with organic chemistry offerings in other institutions, and improves correlation between lecture / laboratory content. Furthermore, it allows students a little more flexibility with regard to scheduling other required courses.

Non-Duplication: There is no duplication of other courses on campus. No other departments on campus offer an organic laboratory experience.

Other Catalog Changes: Page 211-213, 2012-13 Undergraduate Catalog

Emphasis 3. Environmental Science Teaching

Requirements for students seeking environmental science teaching certification in chemistry are the same as those for emphasis 2.

In addition, students seeking environmental science teaching certification are also required to take:

BIOS 205 – Organismal Diversity (3)
AND BIOS 207 – Organismal Diversity Laboratory (1)
BIOS 208 – Fundamentals of Cellular Biology (3)
AND BIOS 210 – Fundamentals of Cellular Biology Laboratory (1)
Rationale: The current program of required courses does not meet the current ISBE requirement of 12 hours of environmental science coursework within 32 hours of science. A substantial revision of this emphasis would be required to meet the state mandate. The department has not had a declared major in this emphasis in the last 10 years (or more). A student wishing to obtain an Environmental Science Teaching certification would most likely do so via the ENVS program.

Department of Chemistry and Biochemistry (CHEM)

The Department of Chemistry and Biochemistry… … or biochemists, should select emphasis 1 or emphasis 5, respectively. With appropriate electives, either emphasis 1 or emphasis 5 will be appropriate for students interested in forensic science. Emphases 2 and Emphasis 3 are designed to prepare students for careers in teaching at the junior and senior high school levels. Emphasis 4 is… … for outstanding students.

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Major in Chemistry (B.S.)

Emphasis 1. Chemistry

Requirements in Department (43-44)

- CHEM 336 – Organic Chemistry I (3)
- AND CHEM 337 – Organic Chemistry II (3)
- AND CHEM 338 – Organic Chemistry Laboratory I (1)
- CHEM 338 – Organic Chemistry Laboratory I (1)
- AND CHEM 339 – Organic Chemistry Laboratory II (1)

Electives chosen with the advice of the chemistry faculty from CHEM 339-340 and 400 level classes excluding classes… …or physics (3-4)

Students should meet… … program of study.

Rationale: The current course configuration is 3+3+2 (two 3-hour lectures plus one 2-hour lab). Changing from a 2-hour lab to two 1-hour labs (3+1, 3+1) will make it easier to maintain the correlation of lecture and lab content and bring our course configuration into alignment with organic chemistry offering at most other 4-year institutions.

Emphasis 5. Biochemistry

Requirements in Department (42)

- CHEM 336 – Organic Chemistry I (3)
- AND CHEM 337 – Organic Chemistry II (3)
- AND CHEM 338 – Organic Chemistry Laboratory I (1)
NORTHERN ILLINOIS UNIVERSITY
COLLEGE OF LIBERAL ARTS AND SCIENCES
CURRICULUM COMMITTEE
Virtual Meeting – October 17, 2012
Approved Attachments

CHEM 338 – Organic Chemistry Laboratory I (1)
CHEM 337 – Organic Chemistry II (3)  
AND CHEM 339 – Organic Chemistry Laboratory II (1)

↓

Students should meet… …program of study.

Rationale: Due to deletion of Environmental Science Teaching (previously Emphasis 3) and the reordering of other departmental emphases, we want to move Biochemistry to Emphasis 2 to be consistent with its status as one of the departments ACS certified degree programs.

[CITC] Emphasis 23, Secondary Teaching

Students seeking certification… …university for graduation. In addition to the program of courses outlined below, the state provides alternative pathways to teacher certification. Contact the discipline coordinator for more information about these programs.

Requirements in Department (51-62) (52-58)
CHEM 201X - The Professional Secondary Science Teacher (1)
↓
CHEM 301X - The Interdisciplinary Secondary Science Teacher (1)
CHEM 325 - Analytical Chemistry I (3)
↓
CHEM 332 - General Organic Laboratory (2)
CHEM 336 – Organic Chemistry I (3)  
AND CHEM 337 – Organic Chemistry II (3)  
AND CHEM 332 – General Organic Chemistry Laboratory I (1)
CHEM 337 – Organic Chemistry II (3)  
AND CHEM 333 – General Organic Chemistry Laboratory II (1)
CHEM 401X - Third Clinical High School/Middle School Experience in Chemistry (2)  
(must be taken concurrently with CHEM 495X)
↓
CHEM 494 - Use of Technology in Curriculum Development and Chemistry Teaching (3)
CHEM 495X - Teaching of Physical Sciences (3)
↓

Requirements outside Department
ETT 402 - Teaching and Learning with Technology (3)
ENGL 250 – Practical Writing (3)
EPS 406 - Issues in Human Development and Learning in the Middle School and High School Years (3)
ILAS 201 - Introductory Clinical Experience (1)  
(must be taken concurrently with CHEM 201X)
ILAS 301 - Second Clinical Experience (2)  
(must be taken concurrently with CHEM 301X)
Students must take 1 credit hour in this course
ILAS 401 – Third Clinical Experience (1-2)  
(must be taken concurrently with CHEM 495X)
* MATH 229 - Calculus I (4)  
AND MATH 230 - Calculus II (4)
NORTHERN ILLINOIS UNIVERSITY
COLLEGE OF LIBERAL ARTS AND SCIENCES
CURRICULUM COMMITTEE
Virtual Meeting – October 17, 2012
Approved Attachments

*PHYS 210 - General Physics I (4)
*AND PHYS 211 - General Physics II (4)
TLSE 457 - Systems for Integrating the Exceptional Student in the Regular Classroom (3)

Other State Requirements
Other state requirements include educational psychology (including human growth and development), history and/or philosophy of education, and the psychology of exceptional children. Students should consult with the discipline coordinator in the Department of Chemistry and Biochemistry to determine which courses are approved for satisfying these requirements.

See “Teacher Certification Requirements” for additional information and requirements.

Recommendations
BIOS 205 – Organismal Diversity (3)
AND BIOS 207 – Organismal Diversity Laboratory (1)
↓
BIOS 209 – Fundamentals of Biology II (3)
BIOS 211 – Fundamentals of Biology II Lab (1)
CSCI 240 – Computer Programming in C++ (4)
↓

Rationale: 1) Due to deletion of Environmental Science Teaching (previously Emphasis 3) and the reordering of other departmental emphases, we want to move Secondary Teaching to Emphasis 3 to be consistent with its status as one of the departments ACS certified degree programs. 2) CHEM 201X and 301X have been deleted from the requirements because the college has developed discipline specific clinicals within the context of the ILAS 201 and 301 courses. This was not present when our discipline specific courses were first developed. The state of Illinois is requiring a program redesign and dropping those 2 credit hours will help us to move forward without impacting the hour requirement. 3) We would like to remove CHEM 494 (2) as a requirement and add ETT 402 (3). Since Augden Windelborn has retired we had to find a substitute for the required technology class (CHEM 494) that Dr. Windelborn taught. We are in the process of developing a STEM technology course with the Educational Technology department which we will launch this fall. We feel it will be a great opportunity for our secondary science teachers. The course is a special section of ETT 402. It is a 3 hour class.

Emphasis 4. Chemistry for Pre-Professional Students

Requirements in Department (32-33)
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CHEM 210 – General Chemistry I (3)
AND CHEM 212 – General Chemistry Laboratory I (1)
↓
CHEM 330 – General Organic Chemistry I (3)
AND CHEM 331 – General Organic Chemistry II (3)
AND CHEM 332 – General Organic Laboratory (2)
OR CHEM 336 – Organic Chemistry I (3)
AND CHEM 337 – Organic Chemistry II (3)
AND CHEM 338 – Organic Chemistry Laboratory I (2)
CHEM 336 – Organic Chemistry I (3)
DEPARTMENT OF HISTORY

New Course: Page 270, 2012-13 Undergraduate Catalog

CIP Code: 54.01

HIST 304. LATE ANTIQUITY AND THE FALL OF ROME (3). History of the third to sixth centuries A.D., traditionally associated with the Fall of Rome throughout the Mediterranean basin. Transformation of vibrant classical and near eastern heritages of the late Roman Empire, first barbarian kingdoms, early Byzantine Empire, and early Islamic caliphate.

Rationale: There is currently a gap in the catalog between HIST 303 (History of Ancient Rome) and HIST 305 (Europe in the Early Middle Ages). HIST 304 will cover the centuries of the Late Roman Empire (usually not covered in the Roman History survey classes, which stop at the 3rd century).

Non-Duplication: The Department of Art History and the Department of Anthropology were notified with regard to this course. Both departments responded indicating no conflict.

Other Catalog Change: Page 269, 2012-13 Undergraduate Catalog

Department of History (HIST)

Group A: (HIST 300, HIST 301, HIST 302, HIST 303, HIST 304, HIST 305,… HIST 490B)

DEPARTMENT OF POLITICAL SCIENCE

New Courses: Page 298, 2012-13 Undergraduate Catalog

CIP Code: 45.10
POLS 210. INTRODUCTION TO LAW AND COURTS (3). Introduction to the study of law and courts, including legal theory, judicial institutions, legal actors, legal systems and ways in which law is interrelated with politics, public policy and society.

**Rationale:** The course is meant to serve as a broad introductory survey course on the subject of law and courts, including socio-legal studies. An Introduction to Law and Courts course would provide a stronger and necessary foundation for students who lack such a foundation but desire to go on to take any of the advanced upper-level prelaw courses on specialized subjects within the law and courts subfield offered by the Department of Political Science (POLS 317, 324, 410, 411, 412, 414, 415, 418). As a lower level introductory course, it will also provide a lower division broad overview of an important subfield in political science for students (majors and non-majors) who are interested in the topic but do not wish to take prelaw courses on advanced topics in law and courts.

**Non-Duplication:** The Department of Sociology was notified with regard to this course and responded indicating no conflict.

POLS 353T. DEMOCRATIC THEORY (3). Examines both the abstract ideal of democracy and issues relating to its practical application within political societies. Contemporary democratic theory is studied in relation to the history of political thought with a view to assessing the desirability, fairness, and practicability of democracy as a form of government. Readings include Jean-Jacques Rousseau and Alexis de Tocqueville along with prominent contemporary scholars.

**Rationale:** 1) Democratic theory is a staple of political science course offerings throughout the U.S., and its current absence forms a conspicuous gap in the department’s curriculum. 2) The study of democracy forms a major part of the political science department’s identity, cutting across and connecting the different subfields. The availability of this course would accurately reflect and significantly strengthen this identity. 3) This course would form an integral part of a new political science emphasis currently being considered for implementation by the department (“Democracy and Justice”).

**Non-Duplication:** The Department of History and Department of Philosophy were notified with regard to this course and both responded indicating no conflict.

POLS 692. TEACHING AND PROFESSIONAL DEVELOPMENT (1). Supervised teacher training for political science PhD students. Required of all doctoral students for 1 semester hour and may not be repeated. May be counted toward the 90 semester hours required for the Ph.D. degree. Subjects covered include, but are not limited to, faculty professional development, syllabus construction, classroom etiquette, alternative assessment strategies, and how to balance teaching and research demands.

**Rationale:** To provide our graduate students with more explicit direction on teaching undergraduate political science courses. The department already has a faculty/student mentorship program which entails faculty classroom visits and one-on-one coaching. However, the department feels that students would benefit additionally by structured classroom presentations on issues related to the scholarship of teaching and learning. Currently, students are required to take 1 credit of POLS 691 and many students fulfill this requirement in the less formal faculty/student mentorship program. Our intentions are to continue the mentorship program, but to simply add this course, which would be required for all PhD students and offered once a year (probably in the spring).

**Non-Duplication:** There is no duplication of other courses on campus.