
Agenda for the April 21 2016 CAA Meeting

Items Approved: 16-53, SOS 2400, Introduction to Teaching Social Studies (New Course)
16-54, SOS 3400, Social Studies Teaching Methods (Revised Course)
16-56, BUS 3200, International Business (Revised Course)
16-57, BUS 4360, Strategy and Policy (Revised Course)
16-58, BIO 1500, General Biology I (New Course)
16-59, BIO 1550G, General Biology II (New Course)
16-60, BIO 4920, Medicinal Plants (Revised Course)
16-61, Biological Sciences Major (Revised Major)
16-62, Biological Sciences: Environmental Biology Option (Revised Option)

Items Pending: 15-146, CTE 3000G, Consumers in the Marketplace (Revised Course)
Executive Action: October 19, 2015 memorandum from Dean Izadi, LCBAS, requesting executive action to decouple FCS 3300 and CTE 3000, and delete CTE 3000 from the catalog.

Ongoing: Multi-year plan regarding the University Learning Goals (For details concerning the plan, see agenda Item 13-83, CAA Learning Goals Committee's Recommendations & Resolution, which was approved by CAA at its 4/25/13 meeting)

**Council on Academic Affairs
Minutes
April 21, 2016**

The April 21, 2016 meeting of the Council on Academic Affairs was held at 2:00 p.m. in the Room 4440 at Booth Library.

Members Present: Dr. Anthony, Mr. Aydt, Ms. Duffin, Dr. Gronnvoll, Dr. Martinez, Dr. Reid, Dr. Ruholl, Ms. Smith, Dr. Throneburg.

Members Absent: Dr. Bruehler, Mr. Simpson and Dr. Wilkinson.

Staff Present: Ms. Fopay.

Guests Present: Dr. David Boggs, School of Business; Dr. Gary Bulla, Biological Sciences; Ms. Abigail Degler, Journalism Student; Dr. Bonnie Laughlin-Schultz, History; and Dr. John Willems, School of Business.

I. Approval of the April 7, 2016 CAA Meeting Minutes.

Ms. Smith moved and Dr. Ruholl seconded the motion to approve the minutes. The minutes of April 7, 2016, were approved as written.

II. Communications:

a. College Curriculum Committee Minutes:

1. Minutes of the April 11, 2016 College of Education & Professional Studies Curriculum Committee meeting.
2. Minutes of the April 15, 2016 College of Sciences Curriculum Committee meeting.

b. Executive Actions:

1. April 15, 2016 memorandum from Interim Dean Klarup, College of Sciences, requesting executive action to revise the RN to BS in Nursing admission requirements.

c. Other:

1. April 6, 2016 memorandum from Interim Dean Klarup, College of Sciences, indicating a correction is needed to the course description on the PSY 4590 course proposal approved by CAA on January 21, 2016.

Corrected course description:

PSY 4590 - Psychology Seminar. (3-0-3) F, S. In-Depth examination of a topic in psychology, through reading of primary research and other material, lectures, papers, and discussion. The topic for each semester and course prerequisites will be announced in advance by the Department Chair. Prerequisites & Notes: Major or minor in psychology and other prerequisites that may vary by topic. May be repeated with permission of the instructor. Credits: 3

III. Items Added to the Agenda:

1. 16-56, BUS 3200, International Business (Revised Course)
2. 16-57, BUS 4360, Strategy and Policy (Revised Course)
3. 16-58, BIO 1500, General Biology I (New Course)
4. 16-59, BIO 1550G, General Biology II (New Course)
5. 16-60, BIO 4920, Medicinal Plants (Revised Course)
6. 16-61, Biological Sciences Major (Revised Major)
7. 16-62, Biological Sciences: Environmental Biology Option (Revised Option)

Dr. Reid moved and Ms. Smith seconded the motion to suspend the CAA bylaws to act upon these items at the meeting today.

Ms. Duffin moved and Dr. Anthony seconded the motion to add these items to the agenda.

IV. Items Acted Upon:**1. 16-53, SOS 2400, Introduction to Teaching Social Studies (New Course).**

Dr. Laughlin-Schultz presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Dr. Martinez moved and Ms. Smith seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revision, was approved, effective Fall 2017.

SOS 2400. Introduction to Teaching Social Studies. (1-0-1) On Demand. Teaching Social Studies. This course provides an introduction to social science education research/theory; the various disciplinary perspectives of all social sciences; edTPA and reflective teaching; and the secondary classroom setting. This course is designed to meet the needs of students who will receive Social Science Teaching Licensure. It is restricted to History Teacher Licensure and Social Science Teaching majors. Prerequisite: SED 2000 or permission of the Social Science Teaching Coordinator. Co-requisite: EDP 2330.

2. 16-54, SOS 3400, Social Studies Teaching Methods (Revised Course).

Dr. Laughlin-Schultz presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Ms. Smith moved and Dr. Martinez seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revision, was approved, effective Spring 2017.

SOS 3400. Social Studies Teaching Methods. (3-1-3) On Demand. Social Studies Methods. Preparation to teach array of social studies classes in secondary schools: U.S. history, world history, civics, and social studies electives. Theoretical and methodological consideration as well as emphasis on practical application, historical thinking, social studies literacy, strategy-based instruction, and reflective teaching. Fifteen hours in clinical experiences are required. This course is designed to meet the needs of students who will receive Social Science Teaching Licensure. It is restricted to History Teacher Licensure and Social Science Teaching majors. Prerequisites: A grade of "C" or better in SED 2000; SOS 2400; EDP 2330 (old EDP 3331) or permission of the Social Science Teaching Coordinator.

3. 16-56, BUS 3200, International Business (Revised Course).

Dr. Willems and Dr. Boggs presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Ms. Smith moved and Ms. Duffin seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revision, was approved, effective Summer 2016.

BUS 3200. International Business. (3-0-3) On Demand. An introduction to globalization and the cultural, economic, political, and legal environments of international business including an overview of risks, challenges, and opportunities of competing in the global marketplace. Prerequisites: A grade of "C" or better in BUS 2750, ECN 2801G, and ECN 2802G, or permission of the Associate Chair, School of Business.

4. 16-57, BUS 4360, Strategy and Policy (Revised Course).

Dr. Willems and Dr. Boggs presented the proposal and answered questions of the council.

Ms. Smith moved and Ms. Duffin seconded the motion to approve the proposal. The motion passed unanimously.

The proposal was approved, effective Summer 2016.

BUS 4360. Strategy and Policy. (3-0-3) On Demand. A comprehensive analysis of strategic management processes in organizations. This is the capstone course which requires expertise from the functional areas to develop broad concepts, theories and techniques to develop socially responsible strategies and policies in a global environment. Prerequisites: ECN 2801G, ECN 2802G; BUS 1950, BUS 2101, BUS 2102, BUS 2750, BUS 2810, BUS 3010, BUS 3200, BUS 3470, BUS 3500, BUS 3710, and BUS 3950; Senior standing; or permission of the Associate Chair, School of Business

5. 16-58, BIO 1500, General Biology I (New Course).

Dr. Bulla presented the proposal and answered questions of the council.

Dr. Martinez moved and Ms. Smith seconded the motion to approve the proposal. The motion passed unanimously.

The proposal was approved, effective Spring 2017. *Note: This course will delete BIO 1100.*

BIO 1500. General Biology I. (3-3-4) F, S. The first in a two-course introduction series for students majoring or minoring in the Biological Sciences, with emphasis on understanding the fundamental aspects of life. This course has a significant laboratory component that requires additional fees to offset the costs of supplies and reagents. Grade and credit hours for this course will be removed if student already has credit for or is registered in BIO 1100.

6. 16-59, BIO 1550G, General Biology II (New Course).

Dr. Bulla presented the proposal and answered questions of the council.

Ms. Smith moved and Ms. Duffin seconded the motion to approve the proposal. The motion passed unanimously.

The proposal was approved, effective Spring 2017.

NOTE: This course will be placed in the Scientific Awareness segment of General Education. Also, BIO 1200G and BIO 1300G will be gradually phased out as a result of this new course.

BIO 1550G. General Biology II. (3-3-4) F, S. The second in a two-course introduction series for students majoring or minoring in the Biological Sciences, with emphasis on taxonomic groups, form and function, and life history. Note: This course is open to all students, but it is intended for Biological Sciences majors and minors, as well as Chemistry majors (Biochemistry concentration). It has a significant laboratory component that requires additional fees to offset the costs of supplies and reagents. Grade and credit hours for this course will be removed if student already has credit for or is registered in BIO 1200G and BIO 1300G. Prerequisite: BIO 1500.

7. 16-60, BIO 4920, Medicinal Plants (Revised Course).

Dr. Bulla presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Ms. Smith moved and Dr. Reid seconded the motion to approve the proposal. The motion passed unanimously.

The proposal, with revision, was approved, effective Fall 2016.

BIO 4920. Medicinal Plants. (3-0-3) On Demand. A worldwide survey of the past and present human utilization of plants and plant products as medicines, including their chemical constituents and natural and cultural history. Prerequisite: BIO 1200G or equivalent.

8. 16-61, Biological Sciences Major (Revised Major).

Dr. Bulla presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Ms. Smith moved and Dr. Anthony seconded the motion to approve the proposal. The motion passed with the following vote:

Yes:	Anthony, Ayd, Duffin, Gronnvoll, Reid, Ruholl, Smith, Throneburg
No:	None
Abstain:	Martinez

The proposal (**See Attachment A**) was approved, effective Fall 2016.

9. 16-62, Biological Sciences: Environmental Biology Option (Revised Option).

Dr. Bulla presented the proposal and answered questions of the council. The council requested revisions to the proposal.

Ms. Duffin moved and Ms. Smith seconded the motion to approve the proposal. The motion passed unanimously.

The proposal (**See Attachment B**) was approved, effective Fall 2016.

V. Committee Reports:**1. Enrollment Management Advisory Committee (EMAC):**

Dr. Anthony reported on the recent EMAC meeting.

2. Online Board Committee:

Dr. Throneburg reported that CGS approved a proposal to allow executive action requests for 5000-level and above courses which seek to change the mode of delivery where course content remains the same. She indicated that some members of the Online Board Committee had expressed concerns about the proposal and she was surprised it had move forward to CGS for approval. Dr. Throneburg provided an explanation of those concerns including that now CAA and CGS have different policies. She suggested that the matter be revisited by the Provost and the CAA and CGS Executive Committees.

Dr. Gronnvoll and Dr. Ruholl noted the CGS and CAA Executive Committees met to discuss it before the item went before CGS. However, since the action affected only 5000-level courses it was considered to be under the purview of CGS. In addition, a subcommittee of the Online Board, at its request, met with the CAA Executive Committee to discuss the possibility of CAA taking a similar action. It was suggested at that meeting the Online Board Subcommittee, if it chose to, could create a proposal to submit to CAA for consideration in the future. However, nothing has been submitted to CAA yet. Dr. Throneburg indicated the reason may be that the subcommittee had presented a proposal for it to the Online Board Committee, but the item was returned for revision.

3. April 19, 2016 information item from Dr. Rebecca Throneburg regarding the dual enrollment initiative.

Dr. Throneburg reported on discussions about a possible new initiative in dual enrollment between EIU and high schools.

VI. Pending:

1. 15-146, CTE 3000G, Consumers in the Marketplace (Revised Course)
2. Executive Action: October 19, 2015 memorandum from Dean Izadi, LCBAS, requesting executive action to decouple FCS 3300 and CTE 3000, and delete CTE 3000 from the catalog.

VII. Ongoing:

1. Multi-year plan regarding the University Learning Goals (For details concerning the plan, see agenda Item 13-83, CAA Learning Goals Committee's Recommendations & Resolution, which was approved by CAA at its 4/25/13 meeting.)

VIII. Meeting Adjournment:

1. Ms. Duffin moved and Ms. Smith seconded the motion to adjourn the meeting. The motion was approved by acclamation.

The meeting adjourned 3:20 p.m.

The next meeting will be held at 2:00 p.m. on Thursday, April 28, 2016.

–Minutes prepared by Ms. Janet Fopay, Recording Secretary

The current agenda and all CAA council minutes are available on the Web at <http://www.eiu.edu/~eiucaa/>. In addition, an electronic course library is available at <http://www.eiu.edu/~eiucaa/elibrary/>.

***** ANNOUNCEMENT OF NEXT MEETING *****

April 28, 2016

Room 4440, Booth Library @ 2:00 p.m.

Agenda:

None at this time.

Approved Executive Actions:**CAH****Effective Fall 2016**

1. Delete the following courses from the catalog: CMN 3200, CMN 3250, CMN 3900, CMN 4700, and CMN 4800.

~~**CMN 3200 – Introduction to Rhetoric and Social Critique. (3-0-3) On Demand.** The analysis of persuasive messages from a variety of mediums. Practice in the application of various critical perspectives to the analysis of persuasive messages. WI Credits: 3~~

~~**CMN 3250 – Rhetoric, Democracy, and the Public Sphere. (3-0-3) On Demand.** This course will examine the relationship between rhetoric, publics, and counterpublics in a diverse democracy. Students will examine rhetorical theories of argumentative spheres (private, technical, and public spheres) and critique public and counterpublic discourses. WI Credits: 3~~

~~**CMN 3900 – Directing Forensic Activities. (3-0-3) On Demand.** Designed to prepare those entering the field of speech education on the secondary and college levels to direct an extracurricular forensics program. Prerequisites & Notes: CMN 2320 and 2040 or permission of instructor. Credits: 3~~

~~**CMN 4700 – Rhetoric, Identity and Social Responsibility. (3-0-3) On Demand.** The public exchange of ideas is an important and contested element of civic life. This class will offer an historical survey of scholars, writers and citizens who have theorized about the rhetorical process. WI Prerequisites & Notes: Completion of CMN 2010, 2020, 2030, 2040 with a grade of “C” or better, CMN 2040, and CMN 3100. Credits: 3~~

~~**CMN 4800 – Voices of Democracy. (3-0-3) On Demand.** Study of competing points of view on a series of critical issues of the Twentieth Century. WI Prerequisites & Notes: Completion of CMN 2010, 2020, 2030, 2040 with a grade of “C” or better. Credits: 3~~

2. Revise the short title and long title for THA 2010G.

Short title:

FROM: Arts Omnibus
TO: Experiencing the Arts.

Long title:

FROM: Arts Omnibus.
TO: Experiencing the Arts: An Exploration of the Visual and Performing Arts.

Pending Executive Actions:**COS****Effective Fall 2016**

1. Revise the admission criteria for the RN to BS in Nursing Program.

Nursing (B.S.)**Criteria for Admission to the Major:**

1. Unconditional admission to the University
2. Complete Application for the RN to BS in Nursing Program
3. Achievement of a cumulative GPA of 2.5 or higher
4. RN license from state of residence
5. Current CPR certification for the professional provider
6. Documentation of health requirements

7. Two professional references
8. Professional statement
9. Professional Liability Insurance
10. Certified Background Check
11. Completion of the following courses or their equivalents with a grade of 'C' or better:
 - BIO 2001G - Human Physiology. Credits: 4
and BIO 2220 - Anatomy and Physiology II. Credits: 4
or
 - BIO 2210 - Anatomy and Physiology I. Credits: 4
and BIO 2220 - Anatomy and Physiology II. Credits: 4
 - ENG 1001G - College Composition I: Critical Reading & Source-Based Writing. Credits: 3
 - ENG 1002G - College Composition II: Argument & Critical Inquiry. Credits: 3
 - FCS 1800 - Lifespan Human Development. Credits: 3
 - PSY 1879G - Introductory Psychology. Credits: 3
 - SOC 1838G - Introductory Sociology. Credits: 3

AND

 - CHM 1040G - The World of Chemistry. Credits: 4

OR

 - CHM 3025G - The Chemistry in Your Life. Credits: 3

OR

 - CHM 1310G - General Chemistry I. Credits: 3
AND
 - CHM 1315G - General Chemistry Laboratory I. Credits: 1

OR

 - PHY 1051G -Physics of the Modern World. (3-0-3)

OR

 - PHY 1052G -Adventures in Physics (3-0-3)
AND
 - PHY 1053G -Adventures in Physics Laboratory. (0-2-1)

OR

 - PHY 1151G -Principles of Physics I. (3-0-3)
AND
 - PHY 1152G -Principles of Physics I Laboratory. (0-2-1)

Pending Executive Actions:

NOTE: The following changes are contingent upon the approval of the CTE 3000G course proposal (agenda item 15-146) which is currently pending.

BAS

Effective Fall 2016

1. Delete CTE 3000 from the catalog.

~~**CTE 3000 – Consumers in the Marketplace. (3-0-3) F, S.** Factors affecting personal and family financial management, including investments and savings, use of credit, insurance and taxes. Credit will not be granted for both CTE 3000 and FCS 3300. Credits: 3~~

2. Decouple FCS 3300 and CTE 3000.

FCS 3300 - Personal and Family Finance. (3-0-3) F, S. A study of factors affecting the buymanship of food, clothing, housing, transportation, credit, and insurance. **Credit not granted for both FCS 3300 and CTE 3000.** Credits: 3

Attachment A**Biological Sciences (B.S.)****Total Semester Hours required for the Degree: 120 semester hours****Major****Semester Hours required for the Biological Sciences Major: ~~81-82~~ 75-78 semester hours****Core Requirements:**

- ~~BIO 1100 - General Biology. Credits: 4~~
- BIO 1150 - Biology Forum Credits: 1
- ~~BIO 1200G - General Botany. Credits: 4~~
- ~~BIO 1300G - Animal Diversity. Credits: 4~~
- **BIO 1500 General Biology I. Credits:4**
- **BIO 1550G General Biology II. Credits:4**
- BIO 3120 - Molecular and Cellular Biology. Credits: 4
- BIO 3200 - Genetics. Credits: 4
- BIO 3510 - Plant Physiology. Credits: 4
- or
- BIO 3520 - Animal Physiology. Credits: 4
- or
- BIO 2220 - Anatomy and Physiology II. Credits: 4
(Note: BIO 2210 must be taken first and counted as an elective.)
- BIO 3800 - Ecology. Credits: 4
- BIO 4984 - Organic Evolution. Credits: 3
- CHM 1310G - General Chemistry I. Credits: 3
- CHM 1315G - General Chemistry Laboratory I. Credits: 1
- CHM 1410 - General Chemistry II. Credits: 3
- CHM 1415 - General Chemistry Laboratory II. Credits: 1
- MAT 2110G - Brief Calculus with Applications. Credits: 3
(See footnote *)
- or
- MAT 1441G - Calculus and Analytic Geometry I. Credits: 5
(See footnote *)
- PHY 1151G - Principles of Physics I. Credits: 3
- PHY 1152G - Principles of Physics I Laboratory. Credits: 1
- PHY 1161 - Principles of Physics II. Credits: 3
- PHY 1162 - Principles of Physics II Laboratory. Credits: 1

AND

- CHM 2430 - Survey of Organic Chemistry. Credits: 3
- CHM 2435 - Survey of Organic Chemistry Laboratory. Credits: 1

OR

- CHM 2440 - Organic Chemistry I. Credits: 3
- CHM 2445 - Organic Chemistry Laboratory I. Credits: 1

AND

- BIO 4750 - Statistical Analysis of Scientific Data. Credits: 3
- OR
- MAT 2250G - Elementary Statistics. Credits: 4

Electives:

Biological Sciences majors must also complete 21 sh of elective course work in Biological Sciences (with the exception of BIO 3400, BIO 4275, workshops, and courses designed for General Education with the exception of BIO 3888G) or Mathematics or Physical Sciences courses above 2000 (with the exception of general education and CHM 2310). A minimum of 15 sh must be taken in the Biological Sciences.

Footnotes:

*Students not prepared for this course will be required to take additional prerequisite math classes.

(Major GPA based on all biological sciences courses taken at EIU)

Attachment B

Biological Sciences: Environmental Biology Option (B.S.)

Total Semester Hours required for the Degree: 120 semester hours

Semester Hours required for the Biological Sciences Major- EVB Option: ~~85-87~~ 83-86 semester hours

Core Requirements

Biological Sciences majors with an Environmental Biology Option must complete a core which includes the following courses and a 15-semester hours of electives selected from the Option Electives list below.

- BIO 1100 - General Biology. Credits: 4
- BIO 1150 - Biology Forum Credits: 1
- **BIO 1500 - General Biology I. Credits: 4**
- **BIO 1550G - General Biology II. Credits: 4**
- ~~BIO 1200G - General Botany. Credits: 4~~
- ~~BIO 1300G - Animal Diversity. Credits: 4~~
- BIO 3120 - Molecular and Cellular Biology. Credits: 4
- BIO 3200 - Genetics. Credits: 4
- BIO 3510 - Plant Physiology. Credits: 4
- or
- BIO 3520 - Animal Physiology. Credits: 4
- BIO 3800 - Ecology. Credits: 4
- BIO 3850 - Environmental Health and Sustainability. Credits: 4
- BIO 4275 - Internship. Credits: 6 or 12
(12 hours of BIO 4275 is required in the major)
- BIO 4984 - Organic Evolution. Credits: 3
- CHM 1310G - General Chemistry I. Credits: 3
- CHM 1315G - General Chemistry Laboratory I. Credits: 1
- CHM 1410 - General Chemistry II. Credits: 3
- CHM 1415 - General Chemistry Laboratory II. Credits: 1
- CHM 2430 - Survey of Organic Chemistry. Credits: 3
- CHM 2435 - Survey of Organic Chemistry Laboratory. Credits: 1
- ECN 2800G - Economics of Social Issues. Credits: 3
- MAT 2110G - Brief Calculus with Applications. Credits: 3
(See Footnote 1)
- or
- MAT 1441G - Calculus and Analytic Geometry I. Credits: 5
(See Footnote 1)
- PLS 3763 - Environmental Politics and Policy. Credits: 3

AND

- BIO 4750 - Statistical Analysis of Scientific Data. Credits: 3
- or
- MAT 2250G - Elementary Statistics. Credits: 4

Option Electives

Option electives to choose from (15 semester hours required):

- BIO 3300 - General Microbiology. Credits: 4
- BIO 3322 - Dendrology. Credits: 3
- BIO 3450A - Independent Study I. Credits: 1 to 3
or BIO 3450B
- BIO 3451A - Undergraduate Research I. Credits: 1 to 3
or BIO 3451B

- BIO 3612 - Plant Evolution and Diversity. Credits: 3
- BIO 3710 - Plant – Animal Interactions. Credits: 3
- BIO 3810 - Freshwater Ecology. Credits: 3
- BIO 3950 - Vertebrate Natural History. Credits: 3
- BIO 3952 - Invertebrate Natural History. Credits: 3
- BIO 4400A - Teaching in the Lab I. Credits: 1
or BIO 4400B
- BIO 4810 - Plant Ecology. Credits: 3
- BIO 4812 - Fisheries Ecology and Management. Credits: 3
- BIO 4814 - Conservation Biology. Credits: 3
- BIO 4816 - Study of Biotic Communities. Credits: 3
- BIO 4818 - Environmental Microbiology. Credits: 4
- BIO 4820 - Spatial Analysis for Environmental Sciences. Credits: 4
- BIO 4832 - Animal Behavior. Credits: 4
- BIO 4840 - Resource Management and Environmental Assessment. Credits: 3
- BIO 4842 - Wildlife Ecology and Management. Credits: 3
- BIO 4940 - Phycology. Credits: 3
- BIO 4942 - Mycology. Credits: 3
- BIO 4944 - Lichens. Credits: 3
- BIO 4946 - Bryology. Credits: 3
- BIO 4948 - Plant Taxonomy. Credits: 3
- BIO 4950 - Ichthyology. Credits: 3
- BIO 4952 - Herpetology. Credits: 3
- BIO 4954 - Ornithology. Credits: 3
- BIO 4956 - Mammalogy. Credits: 3
- BIO 4958 - Parasitology. Credits: 4
- BIO 4960 - Wetland and Aquatic Vascular Plants. Credits: 3
- BIO 4964 - Entomology. Credits: 4
- CHM 4750 - Environmental Chemistry. Credits: 3
- ECN 3810 - Economics of Natural Resources. Credits: 3
- GEO 3300 - Soils. Credits: 3
- GEO 3550 - Surface Water Processes and Resources. Credits: 3
- GEO 3780 - Land Use Planning. Credits: 3
- GEO 3810 - Introduction to Geographic Information Systems. Credits: 3
- GEO 3820 - Remote Sensing I. Credits: 3
- GEO 3860 - Geographic Information Systems II. Credits: 3
- GEO 3870 - Remote Sensing II. Credits: 3
- GEO 4850 - Environmental Geology. Credits: 3

Footnotes:

(Major GPA based on all biological sciences courses taken at EIU)

¹ Students not prepared for this course will be required to take additional prerequisite math classes.