



BIO-ZOOLOGY

DEPARTMENT OF BIOLOGICAL SCIENCES
AT EASTERN ILLINOIS UNIVERSITY

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| NAME | |
| E NUMBER | |
| CATALOG | |

SP19

GENERAL EDUCATION: 30-38 HRS

LANGUAGE: 9 HRS

| Course | Hours | Grade | Semester |
|-----------|-------|-------|----------|
| ENG 1001G | 3 | | |
| ENG 1002G | 3 | | |
| CMN 1310G | 3 | | |

Grade of "C" or better is required

SCIENCE AWARENESS: 7HRS

Completed in major.

MATHEMATICS: 3-5 HRS

Completed in major.

HUMANITIES/FINE ARTS: 9 HRS

| Area | Course | Hours | Grade | Semester |
|--------------------------|--------|-------|-------|----------|
| Humanities | | 3 | | |
| Fine Arts | | 3 | | |
| Humanities/ Fine Arts | | 3 | | |

SENIOR SEMINAR: 3 HRS

| Course | Hours | Grade | Semester |
|-----------|-------|-------|----------|
| EIU _____ | 3 | | |

Seminar topic must be outside the major area. See Undergraduate Catalog for Senior Seminars that exclude Biological Sciences majors.

FOREIGN LANGUAGE: 0-8 HRS

EXEMPT? YES NO

Exempt if 2yrs in high school of a single foreign language with average grade of "C" or better.

| Course | Hours | Grade | Semester |
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SOCIAL/BEHAVIORAL SCIENCES*: 9 HRS

Must be from two different disciplines.

| Course | Hours | Grade | Semester |
|--------|-------|-------|----------|
| | 3 | | |
| | 3 | | |
| | 3 | | |

* One course must meet Cultural Diversity requirement.

SCIENCE CORE: 51-53 HRS

| Biology Courses | Hours | Grade | Semester |
|---|-------|-------|----------|
| BIO 1150 Biology Forum | 1 | | |
| BIO 1500 General Biology I | 4 | | |
| BIO 1550G* General Biology II | 4 | | |
| BIO 3120* Molecular & Cell Biology | 4 | | |
| BIO 3200* Genetics | 4 | | |
| 3520* Animal Physiology | 4 | | |
| BIO 3180* Ecology and Evolution | 4 | | |
| Math Courses | Hours | Grade | Semester |
| MAT 2110G Brief Calculus | 3 | | |
| BIO 4750* Statistic Anly of Sci Data OR MAT 2250G* Elementary Statistics | 4 | | |

| Chemistry Courses | Hours | Grade | Semester |
|--------------------------------------|-------|-------|----------|
| CHM 1310G General Chemistry I | 3 | | |
| CHM 1315G General Chemistry I Lab | 1 | | |
| CHM 1410* General Chemistry II | 3 | | |
| CHM 1415* General Chemistry II Lab | 1 | | |
| CHM 2430/2440* Organic Chemistry | 3 | | |
| CHM 2435/2445* Organic Chemistry Lab | 1 | | |
| Physics Courses | Hours | Grade | Semester |
| PHY 1151G* Principles Physics I | 3 | | |
| PHY 1152G* Principles Physics I Lab | 1 | | |
| PHY 1161G* Principles Physics II | 3 | | |
| PHY 1162G* Principles Physics II Lab | 1 | | |

*CHM 2440/CHM 2445 (Organic Chemistry I with Lab) and CHM 2840/CHM 2845 (Organic Chemistry II) sequence is recommended for Pre-Health or Graduate Programs.

*Additional prerequisite classes may be required. See Undergraduate Catalog

*BIO 2210 (Anatomy and Physiology I) prerequisite. BIO 2210 counts as BIO elective credit.

MAJOR ELECTIVES: 21 HRS

21 hours of course work in Biological Sciences (with the exception of BIO 3400, workshops, and courses designed for General Education) or Mathematics or Physical Sciences courses above 2000 (with the exception of general education and CHM 2310). A minimum of 15 hrs must be taken in Biological Sciences.

| Course | Hours | Grade | Semester |
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HIGHLY RECOMMENDED

- BIO 3620 (4) Funct. Comp. Anatomy
- BIO 3710 (3) Plant-Animal Interactions
- BIO 3888G (3) Tropical/Marine Ecology
- BIO 3950 (3) Vertebrate Natural History
- BIO 3952 (3) Invertebrate Natural History
- BIO 4814 (3) Conservation Biology
- BIO 4830 (3) Comp. Vertebrate Physiology
- BIO 4832 (4) Animal Behavior
- BIO 4950 (3) Ichthyology
- BIO 4952 (3) Herpetology
- BIO 4954 (3) Ornithology
- BIO 4956 (3) Mammalogy
- BIO 4958 (4) Parasitology
- BIO 4962 (4) Entomology
- BIO 4984 (3) Organic Evolution

OTHER ACCEPTABLE

- BIO 3322 (3) Dendrology
- BIO 3450 (1-3) Independent Study
- BIO 3451 (1-3) Undergraduate Research
- BIO 3612 (3) Plant Evolution & Diversity
- BIO 3810 (3) Freshwater Ecology
- BIO 3850 (3) Environmental Biology
- BIO 3960 (1-4) Special Topics
- BIO 4400 (1) Teaching in the Lab
- BIO 4800 (2) Research Techniques
- BIO 4810 (4) Plant Ecology
- BIO 4812 (3) Fisheries Ecology & Mgmt
- BIO 4820 (4) Spatial Analysis for Environmental Sciences
- BIO 4834 (3) Neurobiology
- BIO 4948 (3) Plant Taxonomy
- BIO 4960 (3) Wetland & Aqua. Vasc. Plants

BE PREPARED: UPDATE THIS FORM BEFORE MEETING WITH YOUR ADVISOR

GENERAL ELECTIVES:

Select other elective courses in ANY FIELD to complete graduation requirement of 120 semester hours.

| Course | Hours | Grade | Semester |
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| Course | Hours | Grade | Semester |
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| Course | Hours | Grade | Semester |
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BIOLOGICAL SCIENCES OPTION SUGGESTED COURSE SEQUENCE:

| YEAR 1 | FIRST SEMESTER (15 HOURS) | SECOND SEMESTER (16-17 HOURS) |
|---------------------------------------|---|--|
| Must earn 30+ SH for Sophomore Status | ENG 1001G (3) Composition & Language BIO 1500 (4) General Biology I CHM 1310G (3) General Chemistry I & CHM 1315G (1) General Chemistry I Lab BIO 1150 (1) Biology Forum ¹ Gen Ed Elective (3) | ENG 1002G (3) Composition & Language CHM 1410G (3) General Chemistry II & CHM 1415G (1) General Chemistry II Lab BIO 1550G (4) General Biology II ¹ Gen Ed Elective (3) ² MAT Prerequisite (2-3) |
| YEAR 2 | FIRST SEMESTER (14 HOURS) | SECOND SEMESTER (14-15 HOURS) |
| Must earn 60+ SH for Junior Status | BIO 3120 (4) Molecular & Cell Biology CMN 1310G (3) Intro. Speech Communication CHM 2430 (3) Organic Chemistry & CHM 2435 (1) Organic Chemistry Lab ¹ Gen Ed Elective (3) MAT 2110 (3) Brief Calculus | BIO 3200 (4) Genetics BIO Elective (3-4) Bio Elective (3-4) ¹ Gen Ed Elective (3) ¹ Gen Ed Elective (3) |
| YEAR 3 | FIRST SEMESTER (13 HOURS) | SECOND SEMESTER (16-18 HOURS) |
| Must earn 90+ SH for Junior Status | BIO 3180 (4) Ecology & Evolution BIO 3510 (4) Plant Physiology OR BIO 3520 (4) Animal Physiology OR BIO 2220 (4) Anatomy and Physiology II PHY 1151G (3) Principles of Physics I & PHY 1152G (1) Principles of Physics I Lab | BIO 4750 (4) Statistic Anly of Sci Data OR MAT 2250G (4) Elementary Statistics PHY 1161 (3) Principles of Physics II & PHY 1162 (1) Principles of Physics II Lab BIO Elective (3-4) ¹ Gen Ed Elective (3) |
| YEAR 4 | FIRST SEMESTER (12-14 HOURS) | SECOND SEMESTER (12-14 HOURS) |
| Must earn 120 SH to graduate | EIU _____ (3) Senior Seminar BIO Elective (3-4) BIO Elective (3-4) BIO Elective (3-4) ¹ Gen Ed Elective (3) | BIO Elective (3-4) BIO Elective (3-4) ³ Free Elective (3) Free Elective (3) Exit Interview |

¹ General Education Elective

² See ACT Math Placement

³ Take course that was not previously taken

The suggested schedule assumes that the foreign language requirement has been completed.

GRADUATION REQUIREMENTS:

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| 120 Semester Hours (SH) | 2.00 Cumulative GPA | Notes: |
| 40 SH of upper division courses (3000+) | 2.00 Major GPA | |
| 42 SH in residence at EIU | Senior Seminar (after 75 SH) | |
| 32 SH junior-senior residency | Cultural Diversity | |
| 12 SH senior residency | Application for Graduation (First semester junior year) | |
| 56 SH at senior institution | Electronic Writing Portfolio 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> | |
| Exit Interview (Final semester on campus) | See www.eiu.edu/assess for requirements | |