Biology B.S.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |
| BIOL 112 | Introductory Biology II | 4 | F, Sp, Su |
| BIOL 213W | Plant and Animal Form and Function | 4 | F, Sp |
| BIOL 241 | Biology Research Colloquium | 0.5 | F, Sp |
| BIOL 314 | Genetics | 4 | F |
| BIOL 318 | Ecology | 4 | F |
| BIOL 320 | Cell and Molecular Biology | 4 | Sp |
| BIOL 460W | Biology Senior Seminar | 3 | F, Sp |

Note: BIOL 241: (take twice for 0.5 credits each)

THREE ADDITIONAL COURSES in biology at the 300-level or above

(One of the three courses may consist of 3 or more credits in BIOL 491-494.)

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | Sp, Su |
| CHEM 205W | Organic Chemistry I | 4 | F |
| CHEM 206W | Organic Chemistry II | 4 | Sp |
|  |  |  |  |
| MATH 240 | Statistical Methods I | 4 | F, Sp, Su |
|  | -Or- |  |  |
| BIOL 240 | Biostatistics and Experimental Design | 4 | As needed |
|  |  |  |  |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
|  | -Or- |  |  |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
|  |  |  |  |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
|  | -And- |  |  |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |

Total Credit Hours: 69-72

Environmental Studies B.A.

Course Requirements

Foundation Courses

Introduction to Environmental Studies

|  |  |  |  |
| --- | --- | --- | --- |
| ENST 200W | Environmental Studies | 4 | Sp |

Statistics

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 240 | Biostatistics and Experimental Design | 4 | As needed |
|  | -Or- |  |  |
| MATH 240 | Statistical Methods I | 4 | F, Sp, Su |

Professional Writing

|  |  |  |  |
| --- | --- | --- | --- |
| COMM 201W | Writing for News | 4 | F, Sp |
|  | -Or- |  |  |
| COMM 242 | Message, Media, and Meaning | 4 | F |
|  | -Or- |  |  |
| ENGL 231W | Multimodal Writing | 4 | Alternate years |
|  | -Or- |  |  |
| ENGL 232W | Public and Community Writing | 4 | Alternate years |

SCHOOL OF EDUCATION:

Community and Public Health Promotion B.S.

Admission Requirements

1. Completion of 24 credits.

2. Minimum G.P.A. 2.75.

3. Completion of College Math Competency.

4. Minimum grade of B in FYW 100.

5. Minimum of B- in HPE 102 and HPE 202.

6. Submission of HPE 202 Faculty Reference Form.

Retention Requirements

1. A minimum cumulative G.P.A. of 2.75 each semester.

2. A minimum grade of B- in all other required program courses, except for BIOL 108, BIOL 231, BIOL 240, BIOL 335, and PSYC 110 or PSYC 215, which, when needed, require a minimum grade of C.

Note: BIOL 108 fulfills the Natural Science category of General Education.

Note: BIOL 335 fulfills the Advanced Quantitative/Scientific Reasoning category of General Education.

Course Requirements

Core Foundation Courses

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 108 | Basic Principles of Biology | 4 | F, Sp, Su |
| BIOL 231 | Human Anatomy | 4 | F, Sp, Su |
| BIOL 240 | Biostatistics and Experimental Design | 4 | As needed |
| BIOL 335 | Human Physiology | 4 | F, Sp, Su |
| HPE 101 | Human Sexuality | 3 | F, Sp, Su |
| HPE 102 | Human Health and Disease | 3 | F, Sp, Su |
| HPE 202W | Community/Public Health and Health Promotion | 3 | F, Sp |
| HPE 221 | Nutrition | 3 | F, Sp |
| HPE 233 | Social and Global Perspectives on Health | 3 | F, Sp, Su |

COURSE DESCRIPTIONS

In BIOLOGY

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BIOL 231 - Human Anatomy (4)

By using a systematic approach, study is made of the human organism with respect to the histological and gross anatomy. Lecture and laboratory (dissection included). 6 contact hours.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better, or BIOL 108, with a grade of C or better.

Offered: Fall, Spring, Summer.

BIOL 240 - Biostatistics and Experimental Design (4)

Students will learn about experimental design, hypothesis testing, and statistical inference. Students use R to analyze problems typical of biological research and to visualize results. Lecture and laboratory. 6 contact hours.

Prerequisite: Completion of college mathematics competency and a grade of C or better in BIOL 100, BIOL 108 or BIOL 112.

Offered: As needed.

BIOL 241 - Biology Research Colloquium (0.5)

Students attend formal scientific research seminars given by invited outside speakers from diverse fields of biology. Students discuss the research with the speaker and their peers. This course must be taken for two semesters. Graded S, U.

Prerequisite: BIOL 111 and BIOL 112, with a grade of C or better, or BIOL 108, with a grade of C or better.

Offered: Fall, Spring.