

Recommended Academic Plan for Biology Ecology option (BIOL ECOL at University Park)

Effective: Fall 2007- or later

Ecology

| Semester 1 - Fall | Credits | Semester 2 - Spring | Credits |
|--|---------|--|-----------|
| BIOL 110 (GN) Basic Concepts and Biodiversity | 4 | BIOL 220W (GN) Biology: Populations and Communities, OR BIOL 240W (GN) Biology: Function and Development of Organisms | 4 |
| <i>CHEM 110 (GN) Chemical Principles I</i> | 3 | <i>CHEM 112 (GN) Chemical Principles II</i> | 3 |
| <i>CHEM 111 (GN) Experimental Chemistry I</i> | 1 | <i>CHEM 113 (GN) Experimental Chemistry II</i> | 1 |
| MATH 140 B (GQ) Calculus and Biology I, or MATH 140 (GQ) Calculus with Analytical Geometry I | 4 | MATH 141B (GQ) Calculus and Biology II, or MATH 141 (GQ) Calculus with Analytical Geometry II | 4 |
| Arts (GA), Humanities (GH), or Social and Behavioral Science (GS) | 3 | ENGL 15 or 30 (GWS) Composition/Honors Composition | 3 |
| PSU 016 – First-year seminar | 1 | BIOL 003- Peer Learning in Biology | 1 |
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| Total Credits: | 17 | Total Credits: | 16 |
| Semester 3 – Fall | Credits | Semester 4 – Spring | Credits |
| BIOL 230 W (GN) Biology: Molecules and Cells | 4 | BIOL 220W (GN) Biology: Populations and Communities, or BIOL 240W(GN) Biology: Function and Development of Organisms | 4 |
| CHEM 210 Organic Chemistry I, or CHEM 202 Fundamentals in Organic Chemistry I | 3 | CHEM 212 Organic Chemistry II, or CHEM 203 Fundamentals in Organic Chemistry II | 3 |
| STAT 200 (GQ) Elementary Statistics, STAT 240 (GQ) Intro to Biometry, or STAT 250 (GQ) Intro to Biostatistics | 3 or 4 | <i>PHYS 250 (GN) Introductory Physics I, or PHYS 211 (GN) General Physics: Mechanics</i> | 4 |
| Arts (GA), Humanities (GH), or Social and Behavioral Science (GS) | 3 | CAS 100 (GWS) Effective Speech | 3 |
| ELECTIVE – Supporting Course | 1 | General Health and Physical Activity (GHA) | 1.5 |
| Total Credits: | 14-15 | Total Credits: | 15.5 |
| Semester 5 – Fall | Credits | Semester 6 – Spring | Credits |
| BIOL 4XX | 3 | BIOL 4XX | 3 |
| CHEM 213B Laboratory in Organic Chemistry- Bioscience, or CHEM 213 Laboratory in Organic Chemistry, or ELECTIVE- Supporting Course | 2 or 4 | BIOL 4XX | 3 |
| <i>PHYS 251 (GN) Introductory Physics II, or PHYS 212 (GN)</i> | 4 | PHYS 213 (GN) and 214 (GN), or ELECTIVE- Supporting Course | 3 or 4 |
| Arts (GA), Humanities (GH), or Social and Behavioral Science (GS), and US Cultures (US) | 3 | Arts (GA), Humanities (GH), or Social and Behavioral Science (GS), and International Cultures (IL) | 3 |
| ELECTIVE – Supporting Course | 3 | ELECTIVE – Supporting Course | 3 |
| | | General Health and Physical Activity (GHA) | 1.5 |
| Total Credits: | 15-16 | Total Credits: | 16.5-17.5 |

| Semester 7 – Fall | Credits | Semester 8 – Spring | Credits |
|--|---------|---|----------|
| BIOL 4XX | 3 | BIOL 4XX | 3 |
| Arts (GA), Humanities (GH), or Social and Behavioral Science (GS), | 3 | BIOL 4XX | 3 |
| ENGL 202C (GWS) Effective Writing: Technical Writing | 3 | Arts (GA), Humanities (GH), or Social and Behavioral Science (GS) | 3 |
| STAT 462 or 464 | 3 | ELECTIVE- Supporting Course | 3 or 4 |
| ELECTIVE – Supporting Course | 3 or 4 | ELECTIVE – Supporting Course | 3 |
| Total Credits: | 16 | Total Credits: | 15 or 16 |

Bold type indicates courses requiring a quality grade of C or better.

Italics indicate courses that satisfy both major and General Education requirements.

Bold Italics indicate courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.

GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.

US, IL, and US;IL are codes used to designate courses that satisfy University United States/International Cultures requirements.

W is the code used to designate courses that satisfy University Writing Across the Curriculum requirement.

Scheduling patterns for courses not taught each semester:

Fall and Summer only: BIOL 110*
Fall only: BIOL 230W
Spring only: BIOL 220W
BIOL 240W

Program Notes: This is only one way to plan your schedule – please consult with a biology advisor to refine your plan. Be aware that most 400 level Biology courses are taught only in one semester and over time, the semester offering can change.

*BIOL 110 in the fall is for freshman and sophomores only.

BIOL 110 in the spring is for juniors and seniors only.