

Environmental and Natural Resources – Conservation Biology Concentration

| Freshman Year | | | | | |
|--|--|---|---|--------------------------------|---|
| First Semester | | | Second Semester | | |
| BIOL 1030 | General Biology I | 3 | BIOL 1040 | General Biology II | 3 |
| BIOL 1050 | General Biology Lab. I | 1 | BIOL 1060 | General Biology Lab. II | 1 |
| CH 1010 | Chemistry Requirement | 4 | CH 1020 | Chemistry Requirement | 4 |
| MATH 1020 | Intro. to Mathematical Analysis | 3 | STAT 2300 | Statistical Methods I | 3 |
| ENR 1010 | Intro to Environment & Natural Resources | 1 | ENGL 1030 | Accelerated Composition | 3 |
| Oral Communication Requirement ¹ | | 3 | FNR 1020 | FNR Freshman Portfolio | 1 |
| Semester Hours: 15 | | | Semester Hours: 15 | | |
| Sophomore Year | | | | | |
| First Semester | | | Second Semester | | |
| AP EC 2570 OR ECON 2110 | Natural Resources, Environment & Economics Principles of Microeconomics | 3 | GEN 3000 | Fundamental Genetics | 3 |
| BIOL 3200 + BIOL 3201 | Field Botany | 4 | WFB 3130 | Conservation Biology | 3 |
| OR | | 2 | Physical Environment Requirement ² | | |
| FOR 2050 AND FOR 2210 | Dendrology Forest Biology | 3 | Taxonomy/Habitat Requirement ³ | | |
| FNR 2040 OR PES 2020 | Soil Information Systems Soils | 4 | Arts and Humanities (Literature) Requirement ¹ | | |
| CH 2230 | Organic Chemistry | 3 | | | |
| Semester Hours: 15 | | | Semester Hours: 15 | | |
| Junior Year | | | | | |
| First Semester | | | Second Semester | | |
| BIOL 3350 | Evolutionary Biology | 3 | ENGL 3140 | Technical Writing | 3 |
| Arts and Humanities (non-literature) Requirement ¹ | | 3 | ENR 3020 | Natural Resources Measurements | 3 |
| Ecology Requirement ⁴ | | 3 | Ecology Requirement ⁴ | | |
| Natural Resource Economics Requirement ⁵ | | 3 | Physiology Requirement ⁶ | | |
| Taxonomy/Habitat Requirement ³ | | 3 | Taxonomy/Habitat Requirement ³ | | |
| Semester Hours: 15 | | | Semester Hours: 15 | | |
| Senior Year | | | | | |
| First Semester | | | Second Semester | | |
| Social Science Requirement ¹ | | 3 | ENR 4130 | Restoration Ecology | 3 |
| FOR 4340 | GIS for Landscape Planning | 3 | ENR 4500 | Conservation Issues | 3 |
| Conservation Policy/Law Requirement ⁷ | | 3 | | | |
| Internship, Creative Inquiry or Directed Research ⁸ | | 3 | Taxonomy/Habitat Requirement ³ | | |
| Taxonomy/Habitat Requirement ³ | | 3 | Elective | | |
| Semester Hours: 15 | | | Semester Hours: 15 | | |

120 Total Semester Hours

¹ See General Education Requirements. Three of these credits must also satisfy the Cross-Cultural Awareness Requirement.

(Note: Social Science Requirement must be in an area other than economics or applied economics)

² GEOL 1010, or PHYS 2400

³ AGM 3010, BIOL 3020/3060, 3030/3070, 3040/3080, 3050/3090, 3200, 4060/4070, 4100/4110, 4170, 4420, 4640, 4680, 4720, 4770, 4860, ENT (BIOL) 3010, (ENT, WFB) 4690, FOR 2510, 4060, GEOL 1120, 1140, 2100, 4030, MICRO 4030, WFB 3000, 4180, 4400, 4620 or 4760. At least four of the courses must be laboratories or courses with a required laboratory component.

⁴ BIOL 4410, 4420, 4430, 4460, 4700, or FNR 4660

⁵ AP EC 4750, CRD (AP EC) 3570, or FOR 3040

⁶ AVS 3010+3011, BIOL 4010/4020, 4580, 4750, or (AVS) 4800

⁷ ENR 4290, FOR 4160 or WFB 4300

⁸ Internship (FNR 4900), Creative Inquiry (FNR 4700), Directed Research (WFB 4630) or FNR 4910 Senior Honors Thesis

Environmental and Natural Resources – Natural Resources Management Concentration

Freshman Year

| First Semester | | | Second Semester | | |
|---|--|---|------------------------|------------------------------------|---|
| BIOL 1030 | General Biology I | 3 | BIOL 1040 | General Biology II | 3 |
| BIOL 1050 | General Biology Lab. I | 1 | BIOL 1060 | General Biology Lab. II | 1 |
| CH 1050 OR 1010 | Chemistry Requirement ¹ | 4 | CH 1060 OR 1020 | Chemistry Requirement ¹ | 4 |
| MATH 1020 | Intro. to Mathematical Analysis | 3 | STAT 2300 | Statistical Methods I | 3 |
| ENR 1010 | Intro to Environment & Natural Resources I | 1 | ENGL 1030 | Accelerated Composition | 3 |
| Oral Communication Requirement ² | | 3 | FNR 1020 | FNR Freshman Portfolio | 1 |
| Semester Hours: 15 | | | Semester Hours: 15 | | |

Sophomore Year

| First Semester | | | Second Semester | | |
|---|-----------------------------------|---|--|---------------------------------------|---|
| FNR 2040+2041 OR PES 2020+2021 | Soil Information Systems Soils | 4 | ENR 3020 | Natural Resources Measurements | 3 |
| FOR 2050+2051 | Dendrology | 2 | FOR 2060 | Forest Ecology | 3 |
| FOR 2210 | Forest Biology | 3 | WFB 3500 | Principles of Fish & Wildlife Biology | 3 |
| WFB 3000 | Wildlife Biology | 3 | Arts and Humanities (Non-Lit) Requirement ² | | 3 |
| Arts and Humanities (Literature) Requirement ² | | 3 | Social Science Requirement ² | | 3 |
| Semester Hours: 15 | | | Semester Hours: 15 | | |

Junior Year

| First Semester | | | Second Semester | | |
|---|--|-----------------|--------------------|-----------------------------|---|
| AP EC 2570 OR ECON 2110 | Natural Resources, Environment & Economics Principles of Microeconomics | 3 | APEC 3570 | Natural Resources Economics | 3 |
| BIOL 3200 OR BIOL 4060 AND BIOL 4070 | Field Botany Introductory Plant Taxonomy Plant Taxonomy Lab | 4 3 1 | GEOL 1010 | Physical Geology | 3 |
| ENR 4290 OR | Environmental Law and Policy | 3 | GEOL 1030 | Physical Geology Laboratory | 1 |
| Elective | | 3 | WFB 3130 | Conservation Biology | 3 |
| Minor ³ | | 3 | Minor ³ | | 6 |
| Semester Hours: 16 | | | Semester Hours: 16 | | |

Senior Year

| First Semester | | | Second Semester | | |
|--|----------------------------|---|--------------------|-------------------------------|---|
| FOR 4160 | Forest Policy and Admin. | 3 | ENGL 3140 | Technical Writing | 3 |
| FOR 4340 | GIS for Landscape Planning | 3 | ENR 4500 | Conservation Issues | 3 |
| Internship, Creative Inquiry or Directed Research ⁴ | | 3 | FOR 4060 | Forested Watershed Management | 2 |
| Elective | | 3 | | | |
| Minor ³ | | 3 | | | |
| Semester Hours: 15 | | | WFB 4620 | Wetland Wildlife Biology | 3 |
| | | | Minor ³ | | 3 |
| Semester Hours: 15 | | | Semester Hours: 14 | | |

121 Total Semester Hours

¹ Conservation Biology Concentration or students planning on taking organic chemistry must take CH 1010 and CH 1020

² See General Education Requirements. Three of these credits must also satisfy the Cross-Cultural Awareness Requirement. (Note: Social Science Requirement must be in an area other than economics or applied economics.)

³ Minor: A minor is req. & must be selected from the following: Biochem.; Biol. Sci.; Chem.; Crop & Soil Env. Sci.; Env. Sci. & Pol.; For, Res. Mgmt.; Geol.; Hort.; Legal Studies; Microbiol.; Nat. Res. Econ.; Nonprofit Leadership; Park & Protected Area Mgmt.; Therapeutic Rec.; Travel & Tourism; Urban For.; Wildlife & Fisheries Biol.

⁴ Internship (FNR 4900), Creative Inquiry (FNR 4700), Directed Research (WFB 4630) or FNR 4910 Senior Honors Thesis

Environmental and Natural Resources – Natural Resource & Economic Policy

| Freshman Year | | | | | |
|---|--|-------------|--|------------------------------------|---|
| First Semester | | | Second Semester | | |
| BIOL 1030 | General Biology I | 3 | BIOL 1040 | General Biology II | 3 |
| BIOL 1050 | General Biology Lab. I | 1 | BIOL 1060 | General Biology Lab. II | 1 |
| CH 1050 or 1010 | Chemistry Requirement ¹ | 4 | CH 1060 or 1020 | Chemistry Requirement ¹ | 4 |
| MATH 1020 | Intro. to Mathematical Analysis | 3 | STAT 2300 | Statistical Methods I | 3 |
| ENR 1010 | Intro to Environment & Natural Resources | 1 | ENGL 1030 | Accelerated Composition | 3 |
| Oral Communication Requirement ² | | 3 | FNR 1020 | FNR Freshman Portfolio | 1 |
| Semester Hours: 15 | | | Semester Hours: 15 | | |
| Sophomore Year | | | | | |
| First Semester | | | Second Semester | | |
| AP EC 2570 OR ECON 2110 | Natural Resources, Environment & Economics Principles of Microeconomics | 3 | AP EC 3570 | Natural Resources Economics | 3 |
| Natural Science or Minor ³ | | 3 | ECON 2120 | Principles of Macroeconomics | 3 |
| Geography Requirement ⁴ | | 3 | Arts and Humanities (Non-Lit) Requirement ² | | 3 |
| PO SC 1010 OR PO SC 1020 | Amer. Nat. Gov. Intro. to International Relations | 3 | Literature Requirement ² | | 3 |
| Elective | | 3 | Elective | | 3 |
| Semester Hours: 15 | | | Semester Hours: 15 | | |
| Junior Year | | | | | |
| First Semester | | | Second Semester | | |
| ENR 4290 | Environmental Law and Policy | 3 | AP EC 4750 | Economics of Wildlife Management | 3 |
| ECON 3140 | Intermediate Microeconomics | 3 | Natural Science or Minor ³ | | 3 |
| Natural Science or Minor ³ | | 3 | EX ST 4620 | Statistics Applied to Economic | 3 |
| Advanced Writing Requirement ² | | 3 | ENSP 4000 | Studies in Environmental Science | 3 |
| Applied Economics Requirement ⁵ | | 3 | Macroeconomics Requirement ⁶ | | 3 |
| Semester Hours: 15 | | | Semester Hours: 15 | | |
| Senior Year | | | | | |
| First Semester | | | Second Semester | | |
| AP EC 4570 | Nat. Res. Econ. Theory & Policy | 3 | ENR 4500 | Conservation Issues | 3 |
| ECON 3190 | Environmental Economics | 3 | Community Development Requirement ⁸ | | 3 |
| Internship, Creative Inquiry or Directed Research ⁷ | | 3 | APEC Requirement ⁵ | | 6 |
| APEC Requirement ⁵ OR APEC Requirement ⁵ AND Minor | | 6 3 3 | Elective OR Minor | | 3 |
| Semester Hours: 15 | | | Semester Hours: 15 | | |

120 Total Semester Hours

¹ Conservation Biology Concentration or students planning on taking organic chemistry must take CH 1010 and CH 1020

(Note: Social Science Requirement must be in an area other than economics or applied economics)

² See General Education Requirements. Students must also select a course to satisfy the University's Cross-Cultural Awareness Requirement.

³ Choose from 3000 or 4000 level BIOL, CSEN, ENR, EE&S, ENSP, ENTOX, FOR, GEOL, or WFB

⁴ GEOG 1010, 1030, or 1060

⁵ Choose from 3000 or 4000 level AP EC

⁶ ECON 3020, 3100, or 3150

⁷ Internship (AP EC 4910), Creative Inquiry (AP EC 4940), AGRIC H4910 or H4920 Senior Honors Thesis

⁸ CRD 3350 or 3360 or RS 4010 or 4590