

Sterling College

WORKING HANDS. WORKING MINDS.

Ecology Major Worksheet (Students Entering Fall 2019 and following)

For the Major:

- ____ Ecology Major required courses (21 cr)
- ____ At least 4 Natural Science courses (12-16 cr)
- ____ At least 3 Conservation and Land Management courses (9 cr)
- ____ At least 2 Humanities courses (4-6 cr)

Capstone: Senior Year Research Project (SYRP):

- ____ INT422: SYRP I (3-6 credits)
- ____ INT423: SYRP II (3-6 credits)

At Least 52 Total Major Credits

Graduation Requirements

- ____ INT100A A Sense of Place: Expedition I
- ____ NS107A Foundations of Ecology
- ____ 2 Additional Foundations Courses
- ____ 1 additional 400-level seminar course
- ____ 120 total credits (minimum)
- ____ Math Competency (NS050 or waiver)
- ____ Final Q.P.A. of at least 2.0
- ____ Successful Completion of Work Program
- ____ 6 Credits in Humanities
- ____ 6 Credits in Natural Science
- ____ 6 Credits in Social Science
- ____ Coursework Designated as Writing-Intensive
- ____ 1 200/300-level Writing-Intensive (WI) course
- ____ 1 300/400-level Writing-Intensive (WI) course

Major Specific Courses

Take the following 6 required courses:

- ____ NS200 Watershed Ecosystem Analysis (3 cr) [prereq: NS107A]
- ____ NS247 Soil, Plants, Microbes I (3 cr) [prereq: NS107A]
- ____ NS260 Geology (4 cr)
- ____ NS235 Natural History of the North Woods (4 cr) [prereq: NS107A]
- ____ NS301 Field Ecology (4 cr) [prereq: NS107A]
- ____ NS402 Conservation Biology (3 cr) WI [prereq: NS107A and Junior/Senior Status]

Take a minimum of 4 of the following **natural science, natural history and field ecology** courses:

- ____ NS204 Natural History of the Southwest (4 cr) Field [NS107A; HM107 or other WI Foundations course; INT100A]
- ____ NS270, 271, 272 Topics in Natural Sciences (Rotating topics, examples below, variable cr)
 - ____ NS271 Natural History of California (5 cr) Field [NS107A; HM107 or other WI Foundations course; INT100A]
 - ____ NS272 Introduction to Climate Science (3 cr)
- ____ NS305 Wetland Ecology (3 cr) [prereq: NS107A]
- ____ NS312 Field Ornithology (3 cr) [prereq: NS107A]
- ____ NS314 Field Botany of Flowering Plants (3 cr) [prereq: NS107A]
- ____ NS328 Vertebrate Natural History (4 cr) [prereq: NS107A]
- ____ NS342 Alpine Ecology and Geomorphology (3 cr) Field [prereq: NS107A]
- ____ NS348 Soil, Plants, Microbes II (4 cr) WI [prereq: NS237]
- ____ NS360 Winter Ecology (3 cr) [prereq: NS107]
- ____ NS/SS364 Research in Tropical Ecosystems: Bahamas (4 cr) *Field* [prereq: NS107A]
- ____ NS/SS363 Research in Tropical Ecosystems: Belize (4 cr) *Field* [prereq: NS107A]
- ____ NS380, 381, 382 Special Topics in Natural Sciences (Rotating topics, examples below, variable cr)
 - ____ NS380A Botany of Cryptogams: Mosses and Ferns (3 cr) [prereq: NS107A]
- ____ NS448 Soil, Plants, Microbes III (3 cr) [prereq: NS348]

Take a minimum of 3 of the following **conservation and land management** courses:

- ____ SS202 Environmental Policy & Law (3 cr) WI [prereq: NS107A, Foundations course]
- ____ SS210 Economics and the Environment (3 cr)
- ____ NS225 Wildlife Conservation and Management (3 cr) [prereq: NS107]
- ____ SS308 Introduction to GIS (3 cr)
- ____ SS310 Land Use History & Planning (3 cr) [prereq: SS202]
- ____ SS408 Advanced GIS (3 cr)

Take a minimum of 2 of the following **humanities** and related courses:

- ____ AS195 Intro to Hand Tools & Green Woodworking (2 cr)
- ____ HM215A Reverence for Wood: Studio (2 cr) [prereq: HM125A]
- ____ HM230 Fiber Arts I (3 cr)
- ____ HM233 Wildness & Wilderness (5 cr) [NS107A; HM107 or other WI Foundations course; INT100A] Field
- ____ HM/SS245 Stories and Storytelling (3 cr) WI [prereq: HM107 or other WI Foundations course]
- ____ HM270, 271, 272 Topics in Environmental Humanities (Rotating topics, examples below, variable cr)
 - ____ HM270 Rewild Your Art (variable cr)

- _____HM271 Wheel-thrown Pottery (3 cr)
 - _____HM326 Nature Writing (3 cr) [prereq: HM107 or other WI Foundations course]
 - _____INT380, 381, 382 Special Topics in Integrated Studies (Rotating topics, examples below, variable cr)
 - _____INT380 Ancestral Lifeways of the Southwest (4 cr) [NS107A; HM107 or other WI Foundations course; INT100A] Field
 - _____INT381 Hudson River Watershed: Nature and Culture of a Changing Landscape (4 cr) Field
 - _____HM481 Global Environmental (3 cr)
 - _____INT472A Resilience, Complexity and Flow (3 cr) [prereq: HM107 or other WI Foundations Course and mid-level WI course]
- (or similar relevant courses pending instructional team approval)*

Note that at least one course from the above list must be an off-campus field course (indicated by Field).

Emphasis Areas

Natural Resource Management courses include:

- _____NS225 Wildlife Conservation and Management (3 cr)
- _____SS308 Introduction to GIS (3 cr)
- _____NS200 Watersheds Ecosystem Analysis (3 cr)
- _____SS202 Env. Policy & Law (3 cr)
- _____NS402 Conservation Biology (3 cr)

Natural History courses include:

- Two of either _____NS235 Natural History of the North Woods (3 cr)
- Or _____NS204 Natural History of the South West (4 cr)
- Or _____NS271 Natural History of California (5 cr)
- Or _____NS342 Alpine Ecology and Geomorphology * (3 cr)
- _____NS328 Vertebrate Natural History (4 cr)
- Either _____NS312 Field Ornithology (3 cr)
- Or _____NS314 Field Botany of Flowering Plants (3 cr)
- Or _____NS380 ST in NS: Botany of Cryptogams: Mosses and Ferns (3 cr)

This worksheet is an advising aid to be used by students and advisors. Note that final degree audits are completed by the Office of Academics through the Sterling College SIS system. Students are required to declare a Major at the beginning of their Junior year. Students without a major declaration on file will not be permitted to enroll for Senior year courses.

Revised 9/4/19