

# Sterling College

Working Hands. Working Minds.

## Ecology Major Worksheet (Students Entering Fall 2018 and following)

### For the Major:

- Ecology Major required courses (15 cr)
- At least 5 Natural Science courses (15-18 cr)
- At least 3 Conservation and Land Management courses (9 cr)
- At least 2 Humanities courses (4-6 cr)
- Ecology 400-level seminar class (3 cr)

### Capstone: Senior Year Research Project (SYRP):

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

**At Least 51 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)
- Work-Tools Competency
- 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 4 required courses:

- NS200 Watersheds Ecosystem Analysis (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]

Take a minimum of 5 of the following **natural history and field ecology** courses:

- NS204 Natural History of the Southwest (4 cr) Field [NS107A; HM107 or other WI Foundations course; INT100A]
- NS247 Soils, Plants, Microbes I (3 cr)
- NS270, 271, 272 Topics in Natural Sciences (Rotating topics, examples below, variable cr)
  - NS270A Natural History of Great Britain (3 cr) Field [prereq: NS107A]
  - 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]
- NS342A Mountain Environments of the Sierra Nevada (3 cr) Field [prereq: NS107A]
- NS348 Soil, Plants, Microbes II (4 cr) WI [prereq: NS107, NS237]
- NS360 Winter Ecology (3 cr) [prereq: NS107]
- NS378 Marine Environments of the North Atlantic Field (4 cr) [prereq: NS107A]
- 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]

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]
- NS240 Forestry (3 cr) [prereq: NS107A]
- SS308 Introduction to GIS (3 cr)
- SS408 Advanced GIS (3 cr)
- SS310 Land Use History & Planning (3 cr) [prereq: SS202]
- AS/NS370, 371, 372: Special Topics in Conservation and Land Management courses (Rotating topics, examples below, variable cr)
  - AS/NS370 Nature Conservation on a Crowded Island (3 cr) [prereq: NS107A] Field

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)
    - \_\_\_\_\_HM271A Papermaking & Book Arts in Place (2 cr)
    - \_\_\_\_\_HM271 Pottery I (3 cr)
    - \_\_\_\_\_HM272 Pottery II (3 cr)
  - \_\_\_\_\_HM326 Nature Writing (3 cr) [prereq: HM107 or other WI Foundations course]
  - \_\_\_\_\_HM370, 371, 372 Special Topics in Environmental Humanities (Rotating topics, examples below, variable cr)
    - \_\_\_\_\_HM382 Nature, Culture, Consciousness (3 cr)
  - \_\_\_\_\_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*
  - \_\_\_\_\_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)*

Take a minimum of 1 of the following **Ecology seminar** courses:

- \_\_\_\_\_NS402: Conservation Biology (3 cr) WI [prereq: NS107A and Junior/Senior Status]
- \_\_\_\_\_NS4xx: Landscape Connectivity and Conservation\*

*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)
- \_\_\_\_\_NS240 Forestry (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 Environments\* (3 cr)
- \_\_\_\_\_NS328 Vertebrate Natural History of the North Woods (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 7/1/18