**EEB Joint B.S./M.S. Program**

**Master of Science (M.S.) Checklist**

# Coursework

1. **Core Courses (14-15 credits).**

Complete EACH:

EEB 5301 Population & Community Ecology (3 cr, odd S) \_\_\_\_\_\_

EEB 5310 Conservation Biology (3 cr, even S) \_\_\_\_\_\_

EEB 5369 Current Topics in Biodiversity (1 credit, F) \_\_\_\_\_\_

EEB 5370 Current Topics in Conservation Biology (1 credit, S) \_\_\_\_\_\_

Complete one:

EEB 5348 Population Genetics (3 cr, odd S) \_\_\_\_\_\_

EEB 5449 Evolution (3 cr, even F) \_\_\_\_\_\_

Complete EEB 5347 Systematic Biology (4 cr, odd F) \_\_\_\_\_\_\_ OR one of\*:

EEB 3266 Field Herpetology (3 cr, Su) \_\_\_\_\_\_\_ EEB 4250 Gen Entomology (4 cr, F) \_\_\_\_\_\_\_

EEB 4252 Field Entomology (4 cr, Su) \_\_\_\_\_\_\_ EEB 4260 & 4261 Ornithology (4 cr, S) \_\_\_\_\_\_\_

EEB 4272 Summer Flora (3 cr, Su) \_\_\_\_\_\_\_ EEB 4274 Parasitology (4 cr, odd F) \_\_\_\_\_\_\_

EEB 4275 Invert Biol (4 cr, odd F) \_\_\_\_\_\_\_ EEB 5200 Biol of Fishes (4 cr, odd S) \_\_\_\_\_\_\_

EEB 5204 Aquatic Plant Biology (4 cr, odd F) \_\_\_\_\_\_\_ EEB 5220 Evol Green Plants (4 cr, even S) \_\_\_\_\_\_\_

EEB 5240 Bryophytes & Lichens (4 cr, odd S) \_\_\_\_\_\_\_ EEB 5250 Biol Of Algae (4 cr, even F) \_\_\_\_\_\_\_

EEB 5254 Mammalogy (4 cr, odd F) \_\_\_\_\_\_\_ EEB 5265 Herpetology (4 cr, odd S) \_\_\_\_\_\_\_

EEB 5271 Systematic Botany (4 cr, odd S) \_\_\_\_\_\_\_ EEB 5477 Insect Phylogeny (3 cr, Irreg.) \_\_\_\_\_\_\_

**B. Related Area (6-7 credits):** At least one course from two of following three areas. If students have already taken a course from one area as part of their B.S., they are encouraged to take their M.S. courses from the other two areas. Advisory committees may approve alternative graduate courses within these three related areas.

Related area 1 Environmental Policy, Ethics and Management

ARE 3434 Envt & Resource Policy (3 cr, F & S) \_\_\_\_\_\_\_ EVST/POLS 3412 Glob Envt Politics (3 cr, F & S) \_\_\_\_\_\_\_

GEOG 4210 Urban & Regional Plan (3 cr, S) \_\_\_\_\_\_\_ NRE 3155 Water Quality Manage (3 cr, even S) \_\_\_\_\_\_\_

NRE 3245 Environmental Law (3 cr, F) \_\_\_\_\_\_\_ NRE 4165 Soil & Water Manage Eng (3 cr, odd S) \_\_\_\_\_\_\_

NRE 4335 Fisheries Manage (3 cr, F) \_\_\_\_\_\_\_ NRE 5200 Sust Nat Res Manage (3 cr, F) \_\_\_\_\_\_\_

NRE 5345 Adv Fish Manage (3 cr, irreg) \_\_\_\_\_\_\_ PHIL 3216 Environmental Ethics (3 cr, F) \_\_\_\_\_\_\_

SOCI 3407 Energy Envt & Society (3 cr, irreg) \_\_\_\_\_\_\_

Related area 2 Environmental Economics

ARE 4438 Valuing the Environment (3 cr, F) \_\_\_\_\_\_\_ ARE 4462 Envt & Resource Econ (3 cr, S) \_\_\_\_\_\_\_

ARE 5464 Benefit-Cost Analysis (3 cr, S) \_\_\_\_\_\_\_

Related area 3 Environmental Analysis

GEOG 3505 Remote Sens Mar Geog (3 cr, F) \_\_\_\_\_\_\_

GEOG 5500 Fundamentals of GIS (3 cr, F & S) \_\_\_\_\_\_\_ GEOG 5510 Appl Issues GIS (3 cr, F & S) \_\_\_\_\_\_\_

NRE 3535 Remote Sensing Envt (3 cr, F) \_\_\_\_\_\_\_ NRE 4535 Remote Sens Image Processing (3 cr, S) \_\_\_\_\_\_\_

NRE 4665 Natural Resources Modeling (3 cr, S) \_\_\_\_\_\_\_ NRE 5205 Decision Meth Nat Res (3 cr, S) \_\_\_\_\_\_\_

NRE 5215 Geospat Tech Envt Man (3 cr, irreg) \_\_\_\_\_\_\_ NRE 5575 Natural Resource Appl of GIS (4 cr, F) \_\_\_\_\_\_\_

NRE 5585 Python Script Geospatial Anal (3 cr, F) \_\_\_\_\_\_\_

1. **Research (4 credits or more).** Complete at least 4 credits of EEB 5889 Independent Study \_\_\_\_\_\_\_
2. **Internship (up to 9 credits)**. Complete at least one of at least two months duration. Each credit entails at least 42 hours. Requirement is met by taking EEB 5891, possibly in combination with EEB 5881.

EEB 5881 Internship in Ecology, Conservation, or Evolutionary Biology (0 cr) \_\_\_\_\_\_\_

EEB 5891 Internship in Ecology, Conservation, or Evolutionary Biology (1–9 cr) \_\_\_\_\_\_\_

Notes:

Twelve credits of coursework required for the EEB B.S. may also be counted towards the M.S. degree.

Course schedules are subject to change

A minimum of 30 credits are needed for MS.