

Ecology and Evolution Emphasis Area Checklist

I. Core Courses

_____ BI 370 Ecology

_____ BI 380 Evolution

II. Statistics Requirements: _____ ANTH 470, or BI 399 Intro Experimental Design & Statistics, or GEOL 418, or MATH 243, or MATH 425, or PSY 302, or equivalent.

**Course taken to fulfill the lab/field requirement cannot also be used to fulfill the advanced electives requirement.

III. Biological Lab/Field Course: At least one field or lab course from the following: **

_____ BI 306 Pollination Biology

_____ BI 307 Forest Biology

_____ BI 357 Marine Biology

_____ BI 372 Field Biology

_____ BI 448 Field Botany

_____ BI 452 Insect Biology

_____ BI 455 Marine Birds & Mammals

_____ BI 468 Amphibians & Reptiles

_____ BI 474 Marine Ecology

_____ OXLA 488: BI Neotropical Ecol Fld Study

IV. Advanced Electives: At least three additional courses from the following:**

_____ BI 401 Research (4 credits min.)

_____ BI 410 Marine Micro: Phytoplankton Ecol

_____ BI 410 Microbial Ecology

_____ BI 410 Tropical Marine Ecology

_____ BI 410 Neotropical Ecology

_____ BI 410 Ecological Restoration

_____ BI 432 Mycology

_____ BI 442 Systematic Botany

_____ BI 448 Field Botany

_____ BI 451 Invertebrate Zoology

_____ BI 452 Insect Biology

_____ BI 454 Estuarine Biology

_____ BI 455 Marine Birds & Mammals

_____ BI 457 Subtidal & Deep Sea Ecology

_____ BI 457 Biology of Fishes

_____ BI 468 Amphibians & Reptiles

_____ BI 471 Population Ecology

_____ BI 472 Community Ecology

_____ BI 474 Marine Ecology

_____ BI 476 Terrestrial Ecosyst Ecology

_____ BI 484 Molecular Evolution

_____ BI 486 Population Genetics

_____ BI 487 Molecular Phylogenetics

_____ BI 488 Evolutionary Processes

_____ BI 490 Theoretical Ecology

_____ BI 496 Conservation Genetics

_____ BI 498 Biology & Politics

_____ OXLA 488: BI Neotropical Ecol Fld Study

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IV. Advanced Electives Continued - Outside-Departmentally Approved Courses:**

- | | |
|--|---|
| <input type="checkbox"/> ANTH 462 Paleoprimatology | <input type="checkbox"/> GEOG 421 Advanced Climatology |
| <input type="checkbox"/> ANTH 463 Primate Behavior | <input type="checkbox"/> GEOG 423 Advanced Biogeography |
| <input type="checkbox"/> ANTH 467 Paleoecology Human Evo | <input type="checkbox"/> GEOG 431 Vegetation History &
Ecosystems Dynamics |
| <input type="checkbox"/> ANTH 468 Evolutionary Theory | <input type="checkbox"/> GEOG 433 Fire & Natural Disturbances |
| <input type="checkbox"/> ANTH 472 Primate Conservation | <input type="checkbox"/> GEOL 431 Invertebrate/Marine
Paleobiology |
| <input type="checkbox"/> ENVS 375 Oregon Seminar | <input type="checkbox"/> GEOL 433 Paleobotany |
| <input type="checkbox"/> ENVS 410 Philosophy of Ecology | <input type="checkbox"/> GEOL 434 Vertebrate Paleontology |
| <input type="checkbox"/> ENVS 427 Environmental & Ecological
Monitoring | <input type="checkbox"/> GEOL 435 Paleopedology |
| <input type="checkbox"/> ENVS 465 Wetland Ecology & Mgmt. | <input type="checkbox"/> LA 441 Principles of Applied Ecology |
| <input type="checkbox"/> ENVS 477 Soil Science | |
| <input type="checkbox"/> GEOG 323 Biogeography | |

Please note: Not all 400-level courses are offered every year.