

Ecology and Evolution Emphasis Area Checklist

I. Core Courses

_____ BI 370 Ecology (or BI 399 Tropical 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 410 Ecological Field Methods

_____ BI 448 Field Botany

_____ BI 452 Insect Biology

_____ BI 455 Marine Birds & Mammals

_____ BI 468 Amphibians & Reptiles

_____ BI 474 Marine Ecology

_____ ONEO 488: BI Neotropical Ecology Field Study

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

_____ BI 401 Research (4 credits min.)

_____ BI 410 Marine Microbiology: Topics

_____ BI 410 Microbial Ecology

_____ BI 410 Tropical Marine Biology

_____ BI 410 Modeling in the Life Sciences

_____ BI 410 Ecological Field Methods

_____ BI 410 Conservation Genetics

_____ 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 Top: Deep Sea Ecology

_____ BI 457 Top: Biology of Fishes

_____ BI 457 Top: Marine Conservation Biology

_____ BI 468 Amphibians & Reptiles

_____ BI 471 Population Ecology

_____ BI 472 Community Ecology

_____ BI 474 Marine Ecology

_____ BI 476 Terrestrial Ecosystems Ecology

_____ BI 484 Molecular Evolution

_____ BI 486 Population Genetics

_____ BI 488 Evolutionary Processes

_____ ONEO 488: BI Neotropical Ecology Field Study

_____ ONEO 488: BI Neotropical Ecology Field Proj

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

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

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|---|--|
| ___ ANTH 459 Advanced Evolutionary
Medicine | ___ GEOG 323 Biogeography |
| ___ ANTH 462 Primate Evolution | ___ GEOG 421 Advanced Climatology |
| ___ ANTH 463 Primate Behavior | ___ GEOG 423 Advanced Biogeography |
| ___ ANTH 467 Paleoecology Human Evo | ___ GEOG 433 Fire & Natural Disturbances |
| ___ ANTH 468 Evolutionary Theory | ___ GEOL 433 Paleobotany |
| ___ ANTH 472 Primate Conservation | ___ GEOL 434 Vertebrate Paleontology |
| ___ ANTH 487 Bioanthropology Methods | ___ GEOL 435 Paleopedology |
| ___ ENVS 427 Environmental &
Ecological Monitoring | ___ LA 441 Principles of Applied Ecology |
| ___ ENVS 465 Wetland Ecology & Mgmt. | |
| ___ ENVS 477 Soil Science | |

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