Ecology & Evolution Emphasis Area Checklist

I. Core Courses

________BI 370 Ecology (or BI 395 Tropical Ecology)

________BI 380 Evolution

II. Statistics Requirements: _____ ANTH 470, or BI 399 Intro Experimental Design & Statistics, or ERTH 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 452 Insect Biology
____BI 307 Forest Biology   ____BI 455 Marine Birds & Mammals
____BI 357 Marine Biology       ____BI 468 Amphibians & Reptiles
____BI 372 Field Biology        ____BI 474 Marine Ecology
____BI 410 Field Biology         ____ONEO 488: BI Neotropical Ecology Field Stdy
____BI 410 Ecological Field Methods
____BI 448 Field Botany

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

____BI 401 Research (4 credits min.)      ____BI 457 Top: Deep Sea Ecology
____BI 410 Marine Microbiology: Topics    ____BI 457 Top: Biology of Fishes
____BI 410 Microbial Ecology             ____BI 457 Top: Marine Conservation Biology
____BI 410 Tropical Marine Biology       ____BI 468 Amphibians & Reptiles
____BI 410 Modeling in the Life Sciences ____BI 471 Population Ecology
____BI 410 Ecological Field Methods      ____BI 472 Community Ecology
____BI 410 Conservation Genetics         ____BI 474 Marine Ecology
____BI 432 Mycology                      ____BI 476 Terrestrial Ecosystems Ecology
____BI 442 Systematic Botany             ____BI 484 Molecular Evolution
____BI 448 Field Botany                  ____BI 486 Population Genetics
____BI 451 Invertebrate Zoology          ____BI 488 Evolutionary Processes
____BI 452 Insect Biology                ____ONEO 488: BI Neotropical Ecology Field Stdy
____BI 454 Estuarine Biology             ____ONEO 488: BI Neotropical Ecology Field Proj
____BI 455 Marine Birds & Mammals

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

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

- ANTH 459 Advanced Evolutionary Medicine
- ANTH 462 Primate Evolution
- ANTH 463 Primate Behavior
- ANTH 467 Paleoecology Human Evo
- ANTH 468 Evolutionary Theory
- ANTH 472 Primate Conservation
- ANTH 487 Bioanthropology Methods
- ENVS 427 Environmental & Ecological Monitoring
- ENVS 465 Wetland Ecology & Mgmt.
- ENVS 477 Soil Science
- ERTH 433 Paleobotany
- ERTH 434 Vertebrate Paleontology
- ERTH 435 Paleopedology
- GEOG 323 Biogeography
- GEOG 411 Advanced Climatology
- GEOG 421 Advanced Biogeography
- GEOG 423 Advanced Biogeography
- GEOG 433 Fire & Natural Disturbances
- LA 441 Principles of Applied Ecology

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