

Curriculum

The core is comprised of graduate-level ecology courses and seminars offered through the program with an EY designation. These basic requirements are designed to provide all students with a rigorous exposure to current activities and thinking over the breadth of subdisciplines in ecology, and are required of all students:

CAFETERIA COURSES	CREDITS	
	MS	PHD
Foundations of Ecology, EY505 (F)	2	2
Group A Organism/Population Currently available Population and Community Ecology*, EY600 (F) Genetics of Natural Population, BZ578 (°F) Ecological Plant Morphology, BZ530 (*S) Behavioral Ecology, BZ535 (S) Reproductive Biol. of Higher Plants, BZ555 (*F) Chemical Ecology, EN570 (*F) Wildlife Population Dynamics, FW662 (°S) Ecotoxicology, FW544 (S) Plant-Water Relations/Water Stress Physiology (H581)	3	3-6 (total of A+B must be ≥ 9)
Group B Community/Ecosystem Currently available Ecosystem Ecology, EY581 (F) Population and Community Ecology*, EY600 (F) Applications in Landscape Ecology, EY620 (F) Landscape Ecology, BZ561 (F) Conservation Biology, FW555 (F) Applications in Landscape Ecology, FW5XX Fisheries Ecology, FW540 (°F) Fire Ecology, F624 (S) Biogeochemical Cycling, NR660 (S) Ecology of Grassl. and Shrublands, RS630 (F) Ecology of Disturbed Lands, RS578 (°S) Primary Production and Decomp., RS651 (F) Global Carbon Cycle, AT6XX	3	3-6 (total of A+B must be ≥ 9)
Group C Quantitative Tools ST511 and above (often 511(F), 512(S), 544(S)) Quantitative Spatial Statistics, NR523/ST523 (S) Sampling and An. of Vert. Pop., FW663 (*S) Systems Ecology, NR575 (S) GIS and remote sensing -- any course 500+ <i>Students may petition for substituting other quantitative courses</i>	6	9
Distinguished Ecol. Lecture Series, EY571 V (S)	2	2
Interdisciplinary Sem. in Ecology, EY592 V (F, S)	1	2
Research Seminar, EY693 (S)	1	1
Total Required	18	25

*EY600 can be used to meet either Group A or B, but not both.

The cafeteria series of graduate ecology courses are supplemented with advanced course work in ecology and related classes drawn from a wide variety of departmental offerings. This approach ensures that students obtain a broad exposure to a diversity of approaches to ecology, while permitting them to tailor a program to their specific interests. No specific distribution of ecology courses is required by GDPE; the appropriate course work is determined by the student, advisor, and committee.