

PH.D. IN ECOLOGY

Requirements Effective Fall 2024

Code	Title	Credits
COMMON CORE COURSES		
ECOL 505	Foundations of Ecology	3
ECOL 571	Advanced Topics in Ecology ¹	2
ECOL 592	Interdisciplinary Seminar in Ecology ¹	2
ECOLOGICAL SUBDISCIPLINES		
Take a minimum of 6 credits not taken elsewhere in the program from courses in a subdiscipline of ecology. Students are encouraged to explore options across departments. Example courses include the following:		6
ANTH 575	Paleoecology	
BZ 526/BSPM 526	Evolutionary Ecology	
BZ 535	Behavioral and Cognitive Ecology	
BZ 548	Theory of Population and Evolutionary Ecology	
ECOL 600	Community Ecology	
ECOL 610	Ecosystem Ecology	
ECOL 620	Applications in Landscape Ecology	
ESS 660	Biogeochemical Cycling in Ecosystems	
F 610	Advanced Forest Ecology	
FW 562	Fish and Wildlife Population Dynamics	
ECOLOGICAL TOOLS		
Take a minimum of 3 credits of any ecologically-relevant quantitative or qualitative course, as determined by student and committee. Students are encouraged to explore options across departments. Example courses include the following:		3
ANTH 554/ ESS 554	Ecological and Social Agent-based Modeling	
ESS 575	Models for Ecological Data	
FW 663	Sampling & Analysis Vertebrate Populations	
FW 673/STAT 673	Hierarchical Modeling in Ecology	
GR 503/NR 503	Remote Sensing and Image Analysis	
NR 505	Concepts in GIS	
NR 512	Spatial Statistical Modeling-Natural Resources	
NR 523/STAT 523	Quantitative Spatial Analysis	
SOC 610	Seminar in Methods of Qualitative Analysis	
STAR 511	Design and Data Analysis for Researchers I	
STAR 512	Design and Data Analysis for Researchers II	
PROFESSIONAL SKILLS		
Take a minimum of 1 credit of a course (or workshop such as through TILT or the Graduate School combined with a credit of Independent Study (ECOL 695) that will enhance the student's professional development and/or skills based on professional goals, as determined by student and committee. Students are encouraged to explore options across departments and programs. Example courses include the following:		1

BZ 560	Teaching and Communicating Science	
ECOL 693	Research Seminar	
ECOL 695	Independent Study	
GRAD 544	Ethical Conduct of Research	
DISSERTATION		1
Take a minimum of one credit:		
ECOL 799	Dissertation	
ELECTIVES		54
Additional relevant coursework, including research and dissertation credits, as determined by student and committee to meet the minimum Graduate School Credit Requirements of 72 credits total. Students are encouraged to explore options across departments and programs.		
Program Total Credits:		72

A minimum of 72 credits are required to complete this program.

¹ Take two semesters; minimum 2 credits total to graduate.