MASTER OF SCIENCE IN ECOLOGY

Plan B Effective Fall 2023

Code	Title	Credits			
REQUIRED COURSES	;				
ECOL 505	Foundations of Ecology	3			
ECOL 571	Advanced Topics in Ecology	1			
ECOL 592	Interdisciplinary Seminar in Ecology	1			
ECOL 693	Research Seminar	1			
ECOLOGY FUNDAMENTALS					
Select 6 credits not taken elsewhere in the program from the 6					
following:					
ANTH 530	Human-Environment Interactions				
BZ 525	Advanced Conservation & Evolutionary Genomics				
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 575	Models for Ecological Data				
ESS 660	Biogeochemical Cycling in Ecosystems				
FW 662	Wildlife Population Dynamics				
HORT 576	Advanced Environmental Plant Stress Physiology				
ECOLOGY TOOLS					

Select 3 credits not taken elsewhere in the program from the following:

	ANTH 554/ ESS 554	Ecological and Social Agent-based Modeling
	AREC 535/ ECON 535	Applied Econometrics
	AREC 635/ ECON 635	Econometric Theory I
	AREC 735/ ECON 735	Econometric Theory II
	ESS 565	Niche Models
	CIVE 524/WR 524	Modeling Watershed Hydrology
	ESS 575	Models for Ecological Data
	FW 551	Design of Fish and Wildlife Studies
	FW 552	Applied Sampling for Wildlife/Fish Studies
	FW 663	Sampling & Analysis Vertebrate Populations
	FW 673/STAT 673	Hierarchical Modeling in Ecology
	GR 503/NR 503	Remote Sensing and Image Analysis
	MATH 530	Mathematics for Scientists and Engineers
	MATH 540	Dynamical Systems
	NR 505	Concepts in GIS

Program Total Cree	dits:	30	
ADDITIONAL ELECTIVES, AND INDEPENDENT STUDY			
WR 674	Data Issues in Hydrology		
STAT 675A	Topics in Statistical Methods: Sampling		
STAT 560	Applied Multivariate Analysis		
STAT 544/ ERHS 544	Biostatistical Methods for Quantitative Data		
STAT 540	Data Analysis and Regression		
STAT 530	Mathematical Statistics		
STAT 521	Stochastic Processes I		
STAT 520	Introduction to Probability Theory		
STAR 512	Design and Data Analysis for Researchers		
STAR 511	Design and Data Analysis for Researchers I		
SOCR 670	Terrestrial Ecosystems Isotope Ecology		
SOCR 620	Modeling Ecosystem Biogeochemistry		
SOCR 522	Micrometeorology		
NRRT 765	Applied Multivariate Analysis		
NR 523/STAT 5	23 Quantitative Spatial Analysis		
NR 512	Spatial Statistical Modeling-Natural Resources		
NR 506	GIS Methods for Resource Management		

A minimum of 30 credits are required to complete this program.