

2023-24 Natural Resources Management Course Plan

College of Forest Resources & Environmental Science-Michigan Tech

Semester	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Total Credits (128 + 3 co-curriculars)
First Year Fall	FW2010 Vegetation of North America (4)	FW2051 Field Techniques (2)	BL1400 Principles of Biology (3)	BL1410 Principles of Biology Lab (1) Co-req: BL1400	MA1032 Precalculus (4) or MA1135 Calculus for Life Sciences(4)	UN1015 Composition (3)		17
First Year Spring	EC2001 Principles of Economics (3)	CH1150 University Chemistry Lecture (3) Coreq: MA1031 or MA1032 or MA1135	CH1151 University Chemistry Lab (1) Coreq: CH1150	FW1050 Natural Resources Professional (2)	HASS Gen Ed Requirement (3) See list	UN1025 Global Issues (3)		15
Second Year Fall	FW2030 Natural Resource Conservation (2)	FW3020 Forest Ecology (3) Coreq: FW2010 and FW2051	FW3330 Soil Science (4) Prereq: CH1150 & CH1151	MA2720 Statistical Methods (4) Prereq: MA1030 or MA1032	Critical and Creative Thinking Gen Ed (3) Requirement See list	Co-curricular (1) See list		17
Second Year Spring	FW3110 Natural Resource Policy (3)	FW3200 Biometrics and Data Analysis (4) Prereq: FW2051 and MA2720	FW3540 Introduction to Geographic Information Systems (4) Coreq: MA2720	Social Responsibility and Ethical Reasoning Gen Ed Requirement (3) See list	HASS Gen Ed Requirement (3) See list			17
Third Year Fall (Courses are taken as a block)	FW3012 Survey of Silviculture (2) Prereq: FW2010 and FW2051	FW3640 Aquatic Systems (2) OR FW3800 Insect Ecology (2)	FW3170 Land Measurements/GPS (1) Co-req: FW3190 Prereq: FW3540	FW3190 Multi-Resource Assessment (3) Prereq: FW2051, FW3020, FW3200 & MA2720	FW3600 Wildlife Habitat (3)	FW3840 Forest Health (3)	FW3180 Geomorphology, Landscapes & Ecosystems (2)	16
Third Year Spring	FW3510 Outdoor Recreation and Tourism (3)	FW4710 Environmental Biogeochemistry (3)	FW4380 Landscape Ecology and Planning (3)	Business Directed Elective (3) See list	HASS Gen Ed Requirement (3) See list	Co-curricular (1) See list		16
Fourth Year Fall	FW4800 Communication for Natural Resources (2) Prereq: FW3190	FW4811 Integrated Resources Data Collection (2) Prereq: FW3190	FW4180 Ethics of Conservation and Sustainability (2)	FW4150 Forest Resource Management (3) Prereq: FW3010 or FW3012	Natural Resource Directed Elective (3) See list	Business Directed Elective (3) See list	Free elective (3)	18
Fourth Year Spring	FW4830 Integrated Natural Resource Assessment (2) Prereq: FW4811	Social Dimensions Directed Elective (3) See list	Natural Resource Directed Elective (3) See list	Natural Resource Directed Elective (3) See list	HASS Gen Ed Requirement (3) See list	Co-curricular (1) See list		15

This is only a sample schedule and not an official degree audit. To run your official degree audit go to BanWeb -> Student Records -> Degree Audit -> Run Audit -> Latest -> Run Audit

Natural Resource Electives (Choose 9 credits)				
Course #	Course Name	Credits	Semester Offered	Prerequisite
BL2160	Botany	4 cr	Spring	
BL2170	Zoology	4 cr	Fall	
BL4447	Stream Ecology and Fish Biology	4 cr	Summer-odd yrs	BL1400 & BL1410
FW1035	Wood Anatomy and Properties	3 cr	Spring	
FW3320	Forest Genetics and Genomics	3 cr	Spring	
FW3410	Conservation Science	3 cr	Spring	
FW3610	Ornithology	4 cr	Spring	BL1400 & BL1410
FW4120	Tree Physiology	3 cr	Spring	
FW4140	Stand & Forest Modeling	2 cr	Spring	(FW3010 OR FW3012)
FW4220	Wetlands	4 cr	Fall	
FW4240	Mammalogy	4 cr	Fall	BL1400 & BL1410
FW4300	Intro to Wildland Fire	3 cr	Spring	
FW4370	Forest and Landscape Hydrology	3 cr	Spring	
FW4540	Remote Sensing of the Environment	3 cr	Fall	
FW4545	Map Design with GIS	2 cr	Spring-even yrs	FW3540 or FW5550
FW4610	Wildlife Ecology	3 cr	Fall	BL3400 or FW3020
FW4620	Herpetology	3 cr	Spring-odd yrs	BL1400 & BL1410
FW5115	Restoration Ecology	3 cr	Spring-even yrs	
GE2100	Environmental Geology	3 cr	Spring	
GE4150	Natural Hazards	3 cr	Fall	GE2000 or GE2100
Social Dimensions Electives (Choose 3-4 credits)				
Course #	Course Name	Credits	Semester Offered	Prerequisite
SS3313	Sustainability Science, Policy & Assessment	3 cr	Spring-odd yrs	UN1015 & UN1025
SS3315	Population and Environment	3 cr	Spring-odd yrs	(MA1031 OR MA1032) AND (UN1015 & UN1025)
SS3520	U.S. Environmental History	3 cr	Fall	UN1015 & UN1025
SS3630	Environmental Policy and Politics	3 cr	Fall-odd yrs	UN1015 & UN1025
SS/FW3760	Human Dimensions of Natural Resources	3 cr	Fall	UN1015 & UN1025
SS3800	Energy Technology and Policy	3 cr	Spring	UN1015 & UN1025
SS4010	Statistics for the Social Sciences	3 cr	Fall-odd yrs	MA2720
SS4200	Environmental Anthropology	3 cr	Fall	SS2100, UN1015 & UN1025
Business Electives (Choose 6 credits)				
Course #	Course Name	Credits	Semester Offered	Prerequisite
ACC2000	Accounting Principles 1	3 cr	Fall, Spring, Summer	
BUS2300	Quantitative Problem Solving	3 cr	Fall, Spring, Summer	MA2720
EC3400	Economic Decision Analysis	3 cr	Fall, Spring, Summer	UN1015 & UN1025
EC4500	Public Sector Economics	3 cr	Fall	EC2001, UN1015 & UN1025
EC4640	Natural Resource Economics	3 cr	Fall	EC2001, UN1015 & UN1025
EC4650	Environmental Economics	3 cr	Spring	EC2001, UN1015 & UN1025
MGT3000	Organizational Behavior	3 cr	Fall, Spring, Summer	
MKT3000	Principles of Marketing	3 cr	Fall, Spring, Summer	