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 Lecture (3)	BL1410 Principles of Biology Lab (1) Co-req: BL1400	UN1015 Composition (3)	HASS Gen Ed Requirement (3) See list		16
First Year Spring	MA1135 Calculus for Life Sciences (4) Prereq: MA1031 or MA1032	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)		16
Second Year Fall	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	Free Elective (3)	Co-curricular (1) See list		18
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	Directed Elective (3) List below	Social Responsibility and Ethical Reasoning 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	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	FW3410 Conservation Science (3)	FW4380 Landscape Ecology and Planning (3)	HASS Gen Ed Requirement (3) See list	HASS Gen Ed Requirement (3) See list	Free Elective (3)	Co-curricular (1) See list		16
Fourth Year Fall	FW4220 Wetlands (4)	FW4800 Communication for Natural Resources (2) Prereq: FW3190	FW4811 Integrated Resources Data Collection (2) Prereq: FW3190	Directed Elective (3) List below	Free Elective (6)			17
Fourth Year Spring	FW4830 Integrated Natural Resource Assessment (2) Prereq: FW4811	FW4370 Forest and Landscape Hydrology (3)	Directed Elective (3) List below	Free elective (6)	Co-curricular (1) See list			15
Directed Electives	Choose at least 9 credits				1			

## 2022-23 Applied Ecology & Env Science (Plant Eco & Wetlands) Course Plan College of Forest Resources & Environmental Science-Michigan Tech

Directed Electives	Choose at least 9 credits				
Course #	Course Title & Credits	Semester			
BL2160	Botany (4)	Spring			
BL3490	Principles of Ecology and Evolution (4) Prereq: BL1400 &1410	Fall			
FW3075	Plant Biotechnology (3)	Spring			
FW3320	Forest Genetics and Genomics (3)	Spring			
FW4120	Tree Physiology (3)	Spring			
FW5115	Restoration Ecology (3)	Spring-alt even years			

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## 2022-23 Applied Ecology & Env Science (Communicating NR) 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)	,	BL1400 Principles of Biology Lecture (3)	BL1410 Principles of Biology Lab (1) Co-req:1400	UN1015 Composition (3)	HASS Gen Ed Requirement (3) See list		16
First Year Spring	MA1135 Calculus for Life Sciences (4) Prereq: MA1031 or MA1032		CH1151 University Chemistry Lab (1) Coreq: CH1150	FW1050 Natural Resources Professional (2)	HASS Gen Ed Requirement (3) See list	UN1025 Global Issues (3)		16
Second Year Fall	FW3020 Forest Ecology (3) Coreq: FW2010 and FW2051	Prereq: CH1150 & CH1151	MA2720 Statistical Methods (4) Prereq: MA1030 or MA1032	Critical and Creative Thinking Gen Ed (3) Requirement See list	Free Elective (3)	Co-curricular (1) See list		18
Second Year Spring	FW3110 Natural Resource Policy (3)	Analysis (4) Prereq: FW2051	FW3540 Introduction to Geographic Information Systems (4) Coreq: MA2720	ED3510 Communicating Science (3) Prereq: UN1015 and UN1025	Social Responsibility and Ethical Reasoning 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		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	FW3410 Conservation Science (3)		HASS Gen Ed Requirement (3) See list	Free elective (7)	Co-curricular (1) See list			17
Fourth Year Fall	FW4800 Communication for Natural Resources (2) Prereq: FW3190		FW3760 Human Dimensions of Natural Resources (3)	MGT2000 Team Dynamics and Decision Making (3)	HASS Gen Ed Requirement (3) See list	Free Electives (3)		16
Fourth Year Spring	FW4830 Integrated Natural Resource Assessment (2) Prereq: FW4811	FW4370 Forest and Landscape Hydrology (3)	Directed Elective (3) List below	Free elective (6)	Co-curricular (1) See list			15

Directed Electives	Choose one course from below:	
Course #	Course title & credits	Prerequisite
HU2840	Interpersonal Communication (3)	
HU3694	Grant Writing (3)	UN1015 & UN1025
HU3832	Adv Digital Presentation (3)	UN1015 & UN1025
HU3871	New Media Theory (3)	UN1015 & UN1025
HU4625	Risk Communication (3)	UN1015 & UN1025
HU4628	Usability and Instructional Writing	HU3120, UN1015 & UN1025

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## 2022-23 Applied Ecology & Env Science (Biotechnology) 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		FW2051 Field Techniques (2)	BL1400 Principles of Biology (3)	BL1410 Principles of Biology Lab (1) Co-req: BL1400	UN1015 Composition (3)	HASS Gen Ed Requirement (3) See list		16
Spring	Sciences (4) Prereq: MA1031 or MA1032	CH1150 University Chemistry Lecture (3) Coreq: MA1031 or MA1032 or MA1135	CH1151 University Chemistry Lab (1) Coreq: CH1150	CH1153 University Chemistry Recitation (1) Coreq: CH1150	FW1050 Natural Resources Professional (2)	HASS Gen Ed Requirement (3) See list	UN1025 Global Issues (3)	17
Year Fall		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	Social Responsibility and Ethical Reasoning Gen Ed Requirement (3) See list			17
		FW3200 Biometrics and Data Analysis (4) Prereq: FW2051 and MA2720	FW3540 Introduction to Geographic Information Systems (4) Coreq: MA2720	FW3075 Intro to Biotechnology (3)	FW2100 Introduction to Biochemistry (3) Prereq: CH1150			17
Fall	,	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		FW3320 Forest Genetics and Genomics (3)	FW4120 Tree Physiology (3)	HASS Gen Ed Requirement (3) See list	Free Elective (3)	Co-curricular (1) See list		16
Fourth Year Fall		FW4811 Integrated Resources Data Collection (2) Prereq: FW3190	HASS Gen Ed Requirement (3) See list	BL3300 Introduction to Genomics (3) Prereq: FW3320	Free elective (6)	Co-curricular (1) See list		17
Fourth Year Spring	FW4830 Integrated Natural Resource Assessment (2) Prereq: FW4811		FW4128 Conservation Genetics (3) BL1400 & BL1410	Free elective (6)	Co-curricular (1) See list			15

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