

2021-22 Environmental Science (Climate) Course Plan College of Forest Resources & Environmental Science-Michigan Tech

Semester	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Total Credits (120 + 3 co-curriculars)
First Year Fall	FW2051 Field Techniques (2)	BL1100 General Biology 1 (3)	MA1135 Calculus for Life Sciences (4) Prereq: MA1031 or MA1032	PH1110 College Physics 1 (3) Prereq: MA1031 or MA1032; Coreq: MA1135 & PH1111	PH1111 College Physics 1 Lab (1) Coreq: PH1110	UN1015 Composition (3)	16
First Year Spring	FW1050 Natural Resources Professional (2)	BL1200 General Biology 2 (3)	MA2720 Statistical Methods (4) Prereq: MA1030 or MA1032	CH1150 University Chemistry Lecture (3) Coreq: MA1031 or MA1032 or MA1135	CH1151 University Chemistry Lab (1) Coreq: CH1150	UN1025 Global Issues (3)	16
Second Year Fall	FW3020 Forest Ecology (3) Prereq: FW2051	FW3330 Soil Science (4) Coreq: CH1150 & CH1151	Critical and Creative Thinking Gen Ed (3) Requirement See list	HASS Gen Ed Requirement (3) See list	Co-curricular (1)		14
Second Year Spring	FW3540 Intro to GIS (4) Pre-req: MA2720	SS2300 Environment and Society (3)	BL3310 Env. Microbiology (3) Prereq: BL1200	Social Responsibility and Ethical Reasoning Gen Ed Requirement (3) See list	HASS Gen Ed Requirement (3) See list		16
Third Year Fall	FW2060 Fund of Env. Sustainability (3) Prereq: (MA1031 OR MA1032 OR MA1135) & (CH1150 & CH1151)	FW3313 Sustainability Science (3) UN1015 & UN1025	MGT2000 Team Dynamics (3)	HASS Gen Ed Requirement (3) See list	Free Elective (3)	Co-curricular (1)	16
Third Year Spring	FW2081 Circular Economy (3)	FW3110 Natural Resource Policy (3)	FW4421 Climate Change and Management (3)	FW4710 Environmental Biogeochemistry (3) Prereq: CH1150	HASS Gen Ed Requirement (3) See list		15
Fourth Year Fall	FW3760 Human Dimensions of NR (3) Prereq: UN1015 & UN1025	GE2640 Atm Observ & Meterology OR FW5419 Atmospheric Biogeochemistry (3)	Free Elective (8)	Co-curricular (1)			15
Fourth Year Spring	FW4300 Wildland Fire (3) Prereq:FW3020	FW4111 Indigenous NR Management (3) Prereq: UN1015 & UN1025	FW4370 Forest and Landscape Hydrology (3)	FW4500 Environmental Science Capstone (3)	Free Elective (3)		15

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2021-22 Environmental Science (Geospatial) Course Plan
College of Forest Resources & Environmental Science-Michigan Tech

Semester	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Total Credits (120 + 3 co-curriculars)
First Year Fall	FW2051 Field Techniques (2)	BL1100 General Biology 1 (3)	MA1135 Calculus for Life Sciences (4) Prereq: MA1031 or MA1032	PH1110 College Physics 1 (3) Prereq: MA1031 or MA1032; Coreq: MA1135 &	PH1111 College Physics 1 Lab (1) Coreq: PH1110	UN1015 Composition (3)	16
First Year Spring	FW1050 Natural Resources Professional (2)	BL1200 General Biology 2 (3)	MA2720 Statistical Methods (4) Prereq: MA1030 or MA1032	PH1210 College Physics 2(3) Prereq: PH1110; Co-req: PH1200	PH1200 Physics by Inquiry 2 (1) Prereq:PH1111	UN1025 Global Issues (3)	16
Second Year Fall	FW3020 Forest Ecology (3) Prereq: FW2051	FW3330 Soil Science (4) Coreq: CH1150 & CH1151	CH1150 University Chemistry Lecture (3) Coreq: MA1031 or MA1032 or MA1135	CH1151 University Chemistry Lab (1) Coreq: CH1150	Critical and Creative Thinking Gen Ed (3) Requirement See list	Co-curricular (1)	15
Second Year Spring	FW3540 Intro to GIS (4) Pre-req: MA2720	SS2300 Environment and Society (3)	BL3310 Env. Microbiology (3) Prereq: BL1200	Social Responsibility and Ethical Reasoning Gen Ed Requirement (3) See list	HASS Gen Ed Requirement (3) See list		16
Third Year Fall	FW2060 Fund of Env. Sustainability (3) Prereq: (MA1031 OR MA1032 OR MA1135) & (CH1150 & CH1151)	FW3313 Sustainability Science (3) UN1015 & UN1025	HASS Gen Ed Requirement (3) See list	HASS Gen Ed Requirement (3) See list	Free Elective (3)	Co-curricular (1)	16
Third Year Spring	FW2081 Circular Economy (3)	FW3110 Natural Resource Policy (3)	FW4545 Map Design with GIS (2): Prereq:FW3540	FW4710 Environmental Biogeochemistry (3) Prereq: CH1150	HASS Gen Ed Requirement (3) See list	Free Elective (1)	15
Fourth Year Fall	FW3760 Human Dimensions of NR (3) Prereq: UN1015 & UN1025	FW4540 Remote Sensing (3)	FW4542 Remote Sensing Lab (1): Coreq FW4540	FW4554 GPS Field Techniques (2)	Free Elective (4)	Co-curricular (1)	14
Fourth Year Spring	FW4111 Indigenous NR Management (3) Prereq: UN1015 & UN1025	FW4500 Environmental Science Capstone (3)	FW4380 Landscape Ecology and Planning (3) Prereq:MA2720	Free Elective (6)			15

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2021-22 Environmental Science (Env Policy) Course Plan College of Forest Resources & Environmental Science-Michigan Tech

Semester	Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Total Credits (120 + 3 co-curriculars)
First Year Fall	FW2051 Field Techniques (2)	BL1100 General Biology 1 (3)	MA1135 Calculus for Life Sciences (4) Prereq: MA1031 or MA1032	PH1110 College Physics 1 (3) Prereq: MA1031 or MA1032; Coreq: MA1135 & PH1111	PH1111 College Physics 1 Lab (1) Coreq: PH1110	UN1015 Composition (3)	16
First Year Spring	FW1050 Natural Resources Professional (2)	BL1200 General Biology 2 (3)	MA2720 Statistical Methods (4) Prereq: MA1030 or MA1032	UN1025 Global Issues (3)	CH1150 University Chemistry Lecture (3) Coreq: MA1031 or MA1032 or MA1135	CH1151 University Chemistry Lab (1) Coreq: CH1150	16
Second Year Fall	FW3020 Forest Ecology (3) Prereq: FW2051	FW3330 Soil Science (4) Coreq: CH1150 & CH1151	Critical and Creative Thinking Gen Ed (3) Requirement See list	HASS Gen Ed Requirement (3) See list	Co-curricular (1)		14
Second Year Spring	FW3540 Intro to GIS (4) Pre-req: MA2720	SS2300 Environment and Society (3)	BL3310 Env. Microbiology (3) Prereq: BL1200	Social Responsibility and Ethical Reasoning Gen Ed Requirement (3) See list	HASS Gen Ed Requirement (3) See list		16
Third Year Fall	FW4180 Ethics of Conservation (2)	FW2060 Fund of Env. Sustainability (3) Prereq: (MA1031 OR MA1032 OR MA1135) & (CH1150 & CH1151)	FW3313 Sustainability Science (3) UN1015 & UN1025	HASS Gen Ed Requirement (3) See list	Free Elective (3)	Co-curricular (1)	15
Third Year Spring	FW2081 Circular Economy (3)	FW3110 Natural Resource Policy (3)	FW3410 Conservation Biology (3)	FW4710 Environmental Biogeochemistry (3) Prereq: CH1150	HASS Gen Ed Requirement (3) See list		15
Fourth Year Fall	FW3760 Human Dimensions of NR (3) Prereq: UN1015 & UN1025	FW4220 Wetlands (4) Prereq: BL1100	Policy Elective (3) See list below	Free Elective (5)	Co-curricular (1)		16
Fourth Year Spring	FW4111 Indigenous NR Management (3) Prereq: UN1015 & UN1025	FW4500 Environmental Science Capstone (3)	Policy Elective (3) See list below	Free Elective (6)			15

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Policy Elective Choose 2 of the following:

Course Number	Title	Semester	Prerequisite
SS3110	Food Systems & Sustainability (3)	Fall	UN1015 and UN1025
SS3315	Population, Health & Environment (3)	Fall-odd years	MA1135 and UN1015 and UN1025
SS3520	US Environmental History (3)	Fall	UN1015 and UN1025
SS3630	Environmental Policy and Politics (3)	Spring	UN1015 and UN1025
SS3750	Social Inequality (3)	Fall-odd years	UN1015 and UN1025
SS3801	Science, Technology & Society (3)	Fall	UN1015 and UN1025
SS3805	Environmental Justice (3)	Spring-even years	UN1015 and UN1025
SS3815	Energy & Society (3)	Fall-odd years	UN1015 and UN1025
SS4400	Environmental Sociology (3)	On demand	SS2700 or SS2400
FW4070	How We Talk About Earth (2)	Spring	None