

Michigan Technological University

Minor in Sustainability Studies

Program Code SSSS, Academic Year 2025-2026

Department of Social Sciences

Minimum Credits Required: 18

List 1 Sustainability and Communication [Communication Intensive] (3 credits)

- HU 3120 Technical and Professional Communication (3) *Prereqs: UN1015*
- HU 3130 Rhetoric of Science and Technology (3) *Prereqs: UN1015*
- HU 3519 Workshop in Nature Writing (3) *Prereqs: UN1015*
- HU 3692 Writing for Scientific Audiences (3) *Prereqs: UN1015*
- HU 3693 Science Writing for Public Audiences (3) *Prereqs: UN1015*
- HU 3694 Grant Writing (3) *Prereqs: UN 1015*
- HU 3825 Environmental Communication (3) *Prereqs: UN1015*
- HU 4625 Risk Communication (3) *Prereqs: UN1015*

List 2 Cultural and Justice Issues in Sustainability [Intercultural Competency] (3 credits)

- HU 3710 Engineering Ethics (3) *Prereqs: UN1015*
- HU 3508 Literature and the Environment (3) *Prereqs: UN1015*
- HU 3855 Power, Activism and Technology (3) *Prereqs: none*
- FW 4111 Indigenous Natural Resource Management (3) *Prereqs: UN1015*
- SS 3105 Native American and Indigenous Communities (3) *Prereqs: UN1015*
- SS 3110 Food Systems and Sustainability (3) *Prereqs: UN1015*
- SS 3225 Capitalism and the Modern World (3) *Prereqs: UN1015*
- SS 3750 Social Inequality (3) *Prereqs: UN1015*
- SS 3805 Environmental Justice (3) *Prereqs: UN1015*
- SS 3811 Energy Security and Justice (3) *Prereqs: UN1015*
- SS 4450 Sustainable Tourism and Planning (3) *Prereqs: (SS2450 or SS2100 or SS2400 or SS2700) and UN1015*

List 3A Lower-Level Social Sciences Core Courses [SHAPE Course] (3 credits)

- BL 2001 Valuing the Great Lakes (3) *Prereqs: none*
- SS 2210 Community Development & Planning (3) *Prereqs: none*
- SS 2300 Environment & Society (3) *Prereqs: none*
- SS 2400 Introduction to Human Geography (3) *Prereqs: none*
- SS 2450 Introduction to Sustainable Tourism (3) *Prereqs: none*

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List 3B Upper-Level Social Sciences Core Courses [Shape Course] (3 credits)

- EC 4640 Natural Resources Economics (3) *Prereqs: EC2001 or EC3002 or FW4080*
- EC 4650 Market Failure and the Environment (3) *Prereqs: EC2001 or EC3002*
- FW 3313 Sustainability Science (3) *Prereqs: UN1015*
- HU 3508 Literature and the Environment (3) *Prereqs: UN1015*
- PSY 3800 Environmental Psychology (3) *Prereqs: (PSY2000 or HF2000) and UN1015*
- SS 3105 Native and Indigenous Communities (3) *Prereqs: UN1015*
- SS 3110 Food Systems and Sustainability (3) *Prereqs: UN1015*
- SS 3315 Population and Environment (3) *Prereqs: UN1015*
- SS 3520 U.S. Environmental History (3) *Prereqs: UN1015*
- SS 3630 Environmental Policy & Politics (3) *Prereqs: UN1015*
- SS 3801 Science, Technology & Society (3) *Prereqs: UN 1015*
- SS 3805 Environmental Justice (3) *Prereqs: UN1015*
- SS 3811 Energy Security & Justice (3) *Prereqs: UN1015*
- SS 3815 Energy & Society (3) *Prereqs: UN1015*
- SS 4120 Sustainable Development and Communities (3) *Prereqs: UN1015*
- SS 4200 Environmental Anthropology (3) *Prereqs: SS2100 and UN1015*
- SS 4313 Sustainability Science (3) *Prereqs: UN1015*
- SS 4390 Seminar in Sustainability (3) *Prereqs: UN1015*
- SS 4400 Environmental Sociology (3) *Prereqs: SS2700 or SS2400*
- SS 4450 Sustainable Tourism and Planning (3) *Prereqs: (SS2450 or SS2100 or SS2400 or SS2700) and UN1015*
- SS 4540 Global Environmental History (3) *Prereqs: SS3520*

List 4 Natural Sciences Core Course [Unrestricted Courses] (3 credits)

- BL 1100 General Biology I (3) *Prereqs: none*
- BL 1400 Principles of Biology (3) *Prereqs: none*
- BL 2160 Botany (4) *Prereqs: none*
- BL 2940 Human Nutrition (3) *Prereqs: none*
- BL 3490 Principles of Ecology & Evolution (4) *Prereqs: (BL1100 and BL1110) or (BL1400 and BL1410)*
- BL 4070 Environmental Toxicology (3) *Prereqs: BL1020 or (BL1200 and BL1210) or BL1040 or (BL1400 and BL1410) and CH1150 and CH1160*
- BL 4120 Environmental Remediation (3) *Prereqs: (BL1100 and BL1110) or (BL1400 and BL1410)*
- BL 4421 Lake Superior Exploration (3) *Prereqs: none*
- BL 4447 Stream Ecology (3) *Prereqs: none*
- BL 4450 Limnology (3) *Prereqs: none*
- BL 4461 Ecosystem Ecology (3) *Prereqs: BL3490 and CH1122 or (CH1160 and CH1161)*
- BL 4465 Biological Oceanography (3) *Prereqs: (BL1100 and BL1110) or (BL1400 and BL1410)*
- ENG 4515 Introduction to Sustainability and Resilience (3) *Prereqs: none*
- ENG 4525 Systems Analysis for Sustainability and Resilience (3) *Prereqs: none*
- FW 2010 Vegetation of North America (4) *Prereqs: none*
- FW 2015 Landscape Vegetation (2) *Prereqs: FW2010*
- FW 2030 Conservation of Nature (2) *Prereqs: none*
- FW 2060 Fundamentals of Environmental Sustainability (3) *Prereqs: none*
- FW 2081 Intro to Circular Economy (3) *Prereqs: none*
- FW 3020 Forest Ecology (3) *Prereqs: FW2051(C)*
- FW 3110 Natural Resource Policy (3) *Prereqs: none*

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List 4 - continued

- FW 3111 Wild Foods: Northern Forests (2) *Prereqs: none*
- FW 3112 Human Dimensions of Conservation (3) *Prereqs: FW1050*
- FW 3117 Forest of the Future: Swedish Study Abroad (3) *Prereqs: FW3114*
- FW 3410 Conservation Science (3) *Prereqs: none*
- FW 3540 Introduction to GIS for Natural Resource Management (4) *Prereqs: MA2710(C) or MA2720(C) or MA3710(C) or ENVE3502 or CEE3502(C)*
- FW 3610 Ornithology (4) *Prereqs: BL1040 or BL1020 or (BL1200 and BL1210) or (BL1400 and BL1410)*
- FW 4180 Ethics of Conservation and Sustainability (2) *Prereqs: none*
- FW 4240 Mammalogy (4) *Prereqs: BL1040 or BL1020 or (BL1200 and BL1210) or (BL1400 and BL1410)*
- FW 4380 Landscape Ecology and Planning (3) *Prereqs: MA2720 or CEE2502*
- FW 4400 Urban Forestry (3) *Prereqs: none*
- FW 4421 Climate Change and Forested Systems (3) *Prereqs: none*
- FW 4620 Herpetology (3) *Prereqs: BL1040 or BL1020 or (BL1200 and BL1210) or (BL1400 and BL1410)*
- GE 2000 Understanding the Earth (3) *Prereqs: none*
- GE 2100 Environmental Geology (3) *Prereqs: none*
- MEEM 4685 Environmentally Responsible Design and Manufacturing (3) *Prereqs: none*

Sustainability Experience: List 5A or 5B (3 to 4 credits)

[List 5A Essential Education Experience \(E3\) \(3 credits\)](#)

- FW 3114 Reading the Forest (3) *Prereqs: none*
- FW 3760 Human Dimensions of Natural Resource Stewardship (3) *Prereqs: UN1015*
- HU 3703 HU Experience in Environmental Philosophy (3) *Prereqs: UN1015*
- HU 4041 HU Experience in Communication for Sustainability (3) *Prereqs: UN1015*
- SS 3913 Sustainable Living Practicum (1-2) *Prereqs: none*
- SS 4530 Deindustrialization and the Urban Environment (3) *Prereqs: UN1015*
- SS 4700 Communities & Research (3) *Prereqs: UN1015*

[List 5B Upper-Level SHAPE course \(4 credits\)](#)

- UN 3023 Advanced Portfolio for Essential Ed (1) *Prereqs: none*
- One course from list 3B (3)