



Student: \_\_\_\_\_

Expected Graduation Date: \_\_\_\_\_

Course	Course Title	Credits	Semester Taken
<b>MAJOR REQUIREMENTS</b>		<b>61-69</b>	
<b>Area A: Core Requirements</b>		<b>12</b>	
Take all five courses.			
SS 1001	Orientation to SS	1	
SS 2300	Environment and Society	3	
SS 3313/ FW 3313	Sustainability Science	3	
EC 2001	Principles of Economics	3	
FW 2030	Natural Resources Conservation	2	

<b>Area B: Methods &amp; Statistics</b>		<b>8-10</b>	
FW 3540	An Introduction to GIS for Natural Resource Management	4	
SS 2001	Introduction to SS Research	3	
SS 2050	Fundamentals of GIS & Technologies	3	
SS 3240	Reading the Landscape: Anthropology, Geography, History	3	
SS3961	Preparing for Cross-Cultural Immersion Experiences	3	
SS 4009	Intro to Survey Methodology	3	
SS 4010	Statistics for the SS	3	
SS 4050	Adv. GIS Methods & Projects	3	
SS 4211	Ethnographic Methods	3	
SS 4630	Advanced Research in SS	2	
SS 4700	Communities and Research	3	

<b>Area C: Environmental Sciences</b> Choose three courses, at least one from each list.		<b>7-12</b>	
<b>List 1: Ecology</b>			
BL 3490	Principles of Ecology +Evolution	4	
BL 4090	Tropical Island Biology	2	
BL 4440	Fish Biology	4	
BL 4447	Stream Ecology	4	
BL 4450	Limnology	3	
BL 4461	Ecosystem Ecology	3	
BL 4465	Biological Oceanography	3	
FW 2010	Vegetation of North America	4	
FW 2060	Fundamentals of Environmental Sustainability	3	
FW 3020	Forest Ecology	3	
FW 3410	Conservation Biology	3	
FW 3610	Ornithology	4	
FW 3640	Aquatic Ecosystems	2	
FW 4128	Conservation Genetics	3	
FW 4220	Wetlands	4	
FW 4240	Mammalogy	4	
FW 4260	Population Ecology	3	
FW 4380	Landscape Ecology & Planning	3	
FW 4400	Urban Forestry		
<b>List 2: Earth and Physical Science</b>			
FW 3180	Geomorphology, Landscapes & Ecosystems	2	
FW 3330	Soil Science	4	
FW 4370	Forest & Landscape Hydrology	3	
FW 4710	Environmental Biogeochemistry	3	
GE 2000	Understanding the Earth	3	

Course	Course Title	Credits	Semester Taken
<b>Area C - List 2 (continued)</b>			
GE 2100	Environmental Geology	3	
GE 2500	Intro to Oceanography	3	
GE 2640	Atmospheric Observation & Meteorology	3	
GE 3320	Earth History	3	
GE 3850	Geohydrology	3	

<b>Area D: Environmental Economics</b>		<b>3</b>	
Choose one course.			
EC 4620	Energy Economics	3	
EC 4630	Mineral Industry Economics	3	
EC 4640	Natural Resource Economics	3	
FW4080	Forest Economics & Finance	3	
FW2081	Circular Economy	3	

<b>Area E: Environment and Sustainability</b>		<b>27</b>	
Complete nine courses. Choose one course from five of the six lists, and choose two courses from within one list. Choose the remaining two courses from any list.			
<b>List 1: Policy</b>			
FW 3110	Natural Resource Policy	3	
SS 2620	Intro to Public Policy	3	
SS 2625	Intro to American Foreign Policy	3	
SS 2635	Comparative Politics	3	
SS 3600	American Foreign Policy	3	
SS 3612	International Relations	3	
SS 3630	Environmental Policy and Politics	3	
SS 3800	Energy Policy and Technology	3	
SS 4325	Water Policy, History, and Governance	3	
UN 4400	Climate Science and Policy	3	
<b>List 2: Engineering Sustainability</b>			
CEE4506	Application of Sustainability Principles to Engineering Practice	3	
CEE3501 CEE3503	Environmental Engineering OR Fundamentals Environmental Engineering	3	
CMG4800	Sustainable Construction	3	
ENG 4510	Sustainable Futures I	3	
MEEM4685	Env Resp Design & Manufacturing	3	
<b>List 3: Sustainability and Communities</b>			
SS 2450	Intro to Sustainable Tourism	3	
SS 3110	Food Systems & Sustainability	3	
SS 3300	Environmental Problems	3	
SS 3315	Population and Environment	3	
SS 4120	Anthropology of International Development	3	
FW 4380	Landscape Ecology and Planning	3	
SS 4390	Seminar in Sustainability	3-9	
SS 4530	Deindustrialization + the Urban Env.	3	
<b>List 4: Environment and Society</b>			
HU 3508	Literature and the Environment	3-6	
SS 3520	U.S. Environmental History	3	
SS 3280	Anthropology of Energy	3	
SS 3755	Sustainability and the Private Sector	3	

Course	Course Title	Credits	Semester Taken
<b>Area E – List 4 (continued)</b>			
SS 3760	Human Dimension of Natural Resource Stewardship	3	
SS 3801	Science, Technology, & Society	3	
SS 3815	Energy and Society	3	
SS 4001	History of Social Thought	3	
SS 4120	Anthropology of International Development	3	
SS 4200	Environmental Anthropology	3	
SS 4400	Environmental Sociology	3	
SS 4540	Global Environmental History	3	
<b>List 5: Environmental Health and Justice</b>			
BL 4070	Environmental Toxicology	3	
BL 4120	Environmental Remediation	3	
FW 3075	Introduction to Biotechnology	3	
HU 4625	Risk Communication	3	
SS 3105	Native American & Indigenous Communities	3	
SS 3750	Social Inequality	3	
SS 3805	Environmental Justice	3	
SS 3811	Energy Security and Justice	3	
<b>List 6: Decision Making and Persuasion</b>			
PSY2800	Critical Thinking for Social & Behavioral Sciences	3	
PSY3200	Motivation and Emotion	3	
PSY3720	Social Psychology	3	
PSY4010	Cognitive Psychology	3	
PSY4750	Judgement & Decision Making	3	
SS 3805	Environmental Justice	3	
SS 3811	Energy Security & Justice	3	
EC 3400	Economic Decision Analysis	3	
MGT2000	Team Dynamics & Decision Making	3	
SS4001	History of Social Thought	3	

<b>Area F: Culminating Experience</b>		4-5	
Capstone, Internship, Thesis, or Research Experience focused on sustainability issues			
In consultation with an advisor who can assure the project focuses on sustainability, take one course listed here <b>and</b> participate in SS 4910.			
SS 4910	Professional Development for the Social Sciences (required)	1	
SS 3090	UPERSS Project	0-3	
SS 3960	Cultural Immersion	3-9	
SS 4000	Independent Study	3-9	
SS 4501	Senior Thesis	3	
SS 4920	Internship Experience	3-9	
SS 4921	Washington Internship - Professional Practicum	3-9	
<b>OR</b> , students may participate in the Enterprise Program to serve as the culminating experience for the major, with approval from Enterprise faculty member and academic advisor <b>and</b> students must complete SS 4910. <b>(3-4 credits plus SS 4910)</b>			
SS 4910	Professional Development for the Social Sciences (required)	1	
ENT3950	Enterprise Project Work III	1	
ENT3960	Enterprise Project Work IV	1	
ENT4900	Senior Enterprise Project Work V Non-Capstone	2	
ENT4910	Senior Enterprise Project Work VI Non-Capstone	2	
ENT4950	Enterprise Project Work V Capstone	2	
ENT4960	Enterprise Project Work VI Capstone	2	

Free Electives	16-24	
Any course is allowable with the exception of co-curricular courses and courses below the 1000- level.		

Course	Course Title	Credits	Semester Taken
<b>General Education Core, Humanities, Fine Arts, and Social Science (HASS) Requirements</b>		<b>24</b>	
Courses used to complete Core and HASS requirements may not be used to complete other degree requirements. Students must complete 12 credits of Core coursework and 12 credits of Humanities, Fine Arts, and Social Science (HASS) coursework. Repeatable courses may not be repeated for general education credit. Core and HASS courses can be found on the <a href="#">General Education</a> page.			

Core		12	
UN 1015	Composition	3	
UN 1025	Global Issues*	3	
	Critical & Creative Thinking list	3	
	Social Responsibility & Ethical Reasoning list	3	
*A 3000-level or higher modern language course may be used in place of UN 1025.			

HASS Courses		12	
At least six of the 12 credits must be at the 3000- or 4000- level, not including upper level modern language in place of UN1025			
	Communication/Composition	min 3	
	Humanities & Fine Arts	min 3	
	Social & Behavioral Sciences	min 3	
	Any course from the General Education Core, HASS, or Restricted HASS course list	0-3	

Co-Curricular Activities		3	
Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree. Only courses on the co-curricular course list are eligible. Half (0.5) credit courses may be repeated to a maximum of one time for co-curricular credit. Find eligible courses on the <a href="#">General Education</a> page			

General Education Science, Technology, Engineering and Math (STEM)		15	
The STEM course list can be found on the <a href="#">General Education</a> page.			
<b>Mathematics:</b> Four credits minimum.		<b>4</b>	
<b>Lab/Science:</b> Seven credits minimum		<b>7</b>	
Lab/Science course, and a science course in two different disciplines from the STEM science course list			
<b>Additional STEM:</b>		<b>4</b>	
Four credits, varies based on the number of credits taken in math and science. Any course from the STEM courses lists			

**Total Credits Required: 120**

\*This is not the official audit. The official audit can be found at <http://www.mtu.edu/registrar/students/major-degree/audit/sciarts/>