



Course	Course Title	Credits
<b>Social Science Foundations</b>		<b>9</b>
<i>Required Course:</i>		
SS 5313	Sustainability Science	3
<i>Choose 2:</i>		
SS 4120	Sustainable Development & Communities	3
SS 4700	Communities & Research	3
SS 5420	Memory & Heritage	3
SS 5530	Deindustrialization & the Urban Environment	3
SS 5720	Social Thought, Contemporary Issues	3
SS 5900	Heritage Management	3

<b>Socio-Ecological and Socio-Technological Systems</b>		<b>9</b>
<i>Earned through either Certificate or Coursework</i>		
<i>Certificate Option:</i>		
<a href="#">Natural Hazards &amp; Disaster Risk Reduction*</a>		
<a href="#">Natural Resource &amp; Environmental Economics</a>		
<a href="#">Resilient Water Infrastructure*</a>		
<a href="#">Water, Sanitation, &amp; Hygiene Engineering (WASH)*</a>		
<i>OR Coursework Option: Choose 3</i>		
SS 4200	Environmental Anthropology	3
SS 5400	Sociology of the Environment	3
SS 4540/ 5550	Global Environmental History	3
SS 5551	Global Industrial History	3
SS 5500	History of Technology	3
BL 4120	Environmental Remediation*	3
GE 4220	Mining Systems & the Environment*	3
FW 5421	Climate Change & Management in Great Lakes Forested Systems	3
FW 5371	Snow Hydrology	3
FW 5369	Hydrology & Watershed Management	3
BL 5421	Lake Superior Exploration	3
BL 5447	Stream Ecology	3
BL 5451	Advanced Ecology	3
GE 5150	Advanced Natural Hazards	3
CEE 4410	Transportation Planning	3
CEE 5666	Water Resources Planning & Management*	3
FW 4400	Urban Forestry	3
FW 5115	Restoration Ecology	3
EC 5650	Market Failure & Environment*	3
GE 5660	Social Dimensions of Natural Hazards	3

Course	Course Title	Credits
<b>Applied Research &amp; Inquiry Skills</b>		<b>9</b>
<i>Earned through either Certificate or Coursework</i>		
<i>Certificate Option:</i>		
<a href="#">Public Policy</a>		
<a href="#">Data Science Foundations</a>		
<a href="#">Geoinformatics*</a>		
<a href="#">Engineering Sustainability &amp; Resilience*</a>		
<i>OR Coursework Option: Choose 3</i>		
SS 4211	Ethnographic Methods	3
SS 5001	Advanced Social Science Methods	3
SS 5003	Survey Methods	3
SS 5004	Social Statistics	3
SS 5005	Introduction to Agent Based Modeling	3
SS 5049	GIS for Graduate Researchers	3
SS 5050	Advanced GIS Methods & Projects*	3
SS 5501	Industrial Communities	3
SS 5700	Archaeological Field Methods	3
SS 5800	Documentation of Historic Structures	3
SS 6002	Research Design	3

<b>Professional Development Capstone</b>		<b>3</b>
<i>Choose 1</i>		
SS 4000	Independent Study	3
SS 5101	Climate and Energy Policy	3
SS 5015	Cultural/Environmental Office of Surface Mining VISTA Field Service Internship	3
SS 5990	Graduate Research	3
SS 5010	Directed Study	3
SS 4920	Internship Experience	3
SS 4921	Washington Internship-Professional Practicum^	3

\*Check pre-requisites / permissions