

**PROGRAM COURSE CHECKLIST****B. S. ENVIRONMENTAL, GEOGRAPHICAL & GEOLOGICAL SCIENCES: ENVIRONMENTAL GEOSCIENCE**

<b>Total of 57+ Credits <i>excluding</i> Directed General Ed</b>		<b>Credits</b>	<b>Semester Taken</b>
<b>Core Requirements - A (Choose 1, 3 credits)</b>			
EGGS 100	Environmental Science	3	
EGGS 105	Environmental Issues & Choices	3	
EGGS 140	Sustainability Science	3	
<b>Core Requirements - B (Choose 1, 0 credits) *</b>			
EGGS 102	World Cultural Geography	3	
EGGS 104	World Regional Geography	3	
<b>Core Requirements - C (Choose 1, 3 credits)**</b>			
EGGS 100	Environmental Science	3	
EGGS 101	Physical Geography	3	
EGGS 105	Environmental Issues & Choices	3	
EGGS 140	Sustainability Science	3	
EGGS 220	Environmental Geology	3	
<b>Core Requirements - D (Choose 1, 3 credits)</b>			
EGGS 108	Climate Change	3	
EGGS 218	Global Water Issues	3	
EGGS 255	Meteorology	3	
EGGS 259	Oceanography	3	
<b>Cognate Requirements (0 credits)</b>			
CHEM 121	Chemistry for the Sciences 1*	4	
<b>Cognate Electives (Choose 1, 4 credits)</b>			
BIOL 110	Principles of Biology 1	4	
PHYS 208	Introductory Physics 1	4	
<b>Cognate Math (Choose 2, 3 credits)</b>			
EGGS 150	Quantitative Methods	3	
MATH 150	Essentials of Calculus*	3	
MATH 160	Calculus 1*	4	
STAT 141	Introduction to Statistics*	3	
EGGS 342	Geostatistics	3	
<b>Major Requirements (23 credits)</b>			
EGGS 120	Physical Geology*	4	
EGGS 130	Historical Geology	4	
EGGS 213	Fundamentals of Soil Science	3	
EGGS 242	Mapping and GIS Fundamentals	3	
EGGS 263	Mineralogy & Petrology	4	
EGGS 265	Geomorphology	3	
EGGS 271	Fundamentals of Hydrology	3	
EGGS 360	Principles of GIS 1	3	
<b>Major Electives: Choose 3 (9+ credits)</b>			
EGGS 275	Introduction to Surveying	3	
EGGS 325	UAV Applications	3	
EGGS 353	Geological Mapping & Analysis	3	
EGGS 368	Stratigraphy & Sedimentation	3	
EGGS 369	Structural Geology	4	
EGGS 413	Soil Morphology, Genesis, & Classification	4	
EGGS 414	Soil Biology, Chemistry, & Fertility	4	
EGGS 415	Hydric Soils & Wetlands Delineation	4	
EGGS 416	Applied Soil Science & Land Use	4	
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EGGS 420	Watershed Restoration	3
EGGS 421	Environmental Permitting	3
EGGS 452	Coastal Environmental Oceanography	3
EGGS 455	Environmental Impact Assessment	3
EGGS 460	Aqueous Environmental Geochemistry	4
EGGS 461	Energy and Mineral Resources	4
EGGS 470	Hydrogeology	3
EGGS 471	Applied Surface Hydrology	4
EGGS 480	Geophysical Methods	4
MARSCI ###	Any approved Marine Science course	3
<b>Cognate Electives (Choose 2, 6 credits)</b>		
BIOL 140	Watershed Ecology	3
BIOL 242	Microbiology	3
BIOL 300	Political Ecology	3
BIOL 351	Ecology	3
BIOL 411	Aquatic Biology	3
BIOL 421	Ecosystem Management	3
BIOL 456	Ecology of Streams and Rivers	3
EGGS 215	Fundamentals of Outdoor Recreation	3
EGGS 220	Environmental Geology**	3
EGGS 230	Special Topics in Field Env Geoscience	3
EGGS 251	Sustainable Food Systems	3
EGGS 301	Water Resources Management	3
EGGS 302	Land Resources Management	3
EGGS 304	Environmental Valuation	3
EGGS 305	Environmental Risks and Hazards	3
EGGS 313	Soil Morphology Practicum	1+
EGGS 320	Remote Sensing	3
EGGS 358	Environmental Conservation & Preservation	3
EGGS 361	Principles of GIS 2	3
EGGS 364	Digital Cartography	3
EGGS 365	Paleontology	3
EGGS 380	Dams, Reservoirs, and Rivers	3
EGGS 385	Outdoor Recreation Resource Management	3
EGGS 386	US Federal Lands: Geography, Politics, Mgmt	3
EGGS 491	Research in EGGs**	3
EGGS 493	Independent Study in EGGs	3
EGGS 498	Internship in EGGs**	3
LAW 350	Environmental Law	3
MARSCI ###	Any Approved Marine Science Course	3
<b>Major Capstone (Choose 1, 3+ credits)</b>		
EGGS 450	Field Experience in Environmental Geoscience	3+
EGGS 491	Research in EGGs**	3+
EGGS 498	Internship in EGGs**	3+

\*Counts as General Education Credit

\*\*Cannot count courses twice for different categories, e.g. EGGs 100 cannot be counted in both Core A and Core C; EGGs 496 and 498 cannot be counted in Cognate Electives and Major Capstone unless they are **separate** research projects or Internships.