

Master of Science in Geosciences with a Concentration in Environmental Geosciences - Curriculum Information

Required Courses

Course Code	Course Title	Hours
Geosciences Core Courses: Students are required to take 15 hours of Geosciences core courses listed below.		15 Total (Core)
GG 8233	Environmental Geoscience	3
GG 8613	Hydrology	3
ATM 8633	Climate Change	3
Choose ONE of the following courses: Principles of GIS (GR 6303), or Advanced GIS (GR 6313), or Remote Sensing of the Physical Environment (GR 6333)		3
GR 8583	Environmental Geoscience Capstone Experience **	3
Geosciences Electives: In addition to the core courses listed above, students must take 15 credit hours of electives. Any graduate-level courses offered by the department may be used to fulfill the 15 credit hours of elective coursework . *** Within the 30-hour master's degree, students must complete at least 15 hours of 8000-level coursework, including the required core courses (listed above). Please check course prerequisites before registering. Below is a list of some electives that we offer. A full list of our courses can be viewed in the MSU Course Catalog. Note: Students may select 15 hours of graduate electives that can be used to earn a post-baccalaureate certificate. These 15 hours may also be applied toward the ENGS master's degree.		15 Total (Electives)
GG 6503	Geomorphology	3
GG 6523	Coastal Environments	3
GG 6533	Study Abroad course (immersive field experience in the Bahamas)	3
GR 6543	Community Engagement in Environmental Geosciences	3
GR 6863	Forensic Geoscience	3
GG 8103	Geology and Geoheritage of the National Parks	3
GG 8123	Earth History, Paleo-Life, & Paleoclimate	3
GG 8133	Rocks and Minerals	3
GG 8343	Paleontology of Dinosaurs	3

GG 8423	Earthquakes and Volcanoes	3
GG 8503	Landforms	3
GR 8410	Field Methods Seminar (taught at a variety of locations including the Gulf Coast, Appalachia, Western Washington, Bahamas)	3
GR 8553	Research Methods in Geoscience	3
ATM 8833	Weather and Society	3
GR 8813	Advanced Hazards & Disasters	3
	Total Hours:	30

**Students should enroll in their final Fall semester

***NOTE: A split-level (4000/6000) course completed at the undergraduate level cannot be repeated at the graduate level for use in the program of study.