

M.S. IN GEOSCIENCE

Curriculum

Code	Title	Credits
Core Courses		
ESS 521	Geometrics	3
ESS 523	Field Geology of Southeastern Pennsylvania	3
ESS 547	Earth and Space Science Seminar	1
ESS 596	Earth Systems Science	3
ESS 602	Directed Research	3
Choose from two of the following four courses:		6
ESS 530	Principles of Oceanography	
ESS 536	Environmental Geology	
ESS 549	Advanced Hydrogeology	
ESS 570	Principles of Meteorology	
Electives		
17 semester hours of electives approved by the student's committee, at least 11 of which must be ESS or SCE courses.		17
Total minimum credits required		36

In addition, all students complete a project submitted as part of the degree candidacy application (after completing 12 credits towards the degree), and a final project - which includes both a written report and oral presentation - to their graduate committee.

Sample Course Plan

To track their individual degree progress, students are advised to access their Degree Audit via RamPortal and consult their Graduate Coordinator. For more information, visit the Degree Audit FAQ webpage (<https://www.wcupa.edu/academicEnterpriseSystems/student-system-modernization/degree-audit-faqs.aspx>).

The following is a sample suggested course sequence for this program; course offerings and availability are not guaranteed. Students should consult their academic advisor with any questions.

Starting: Fall Semester

Course	Title	Credits
Year One		
Semester One		
ESS 521	Geometrics	3
ESS 547	Earth and Space Science Seminar	1
Select one of the following:		3
ESS 570	Principles of Meteorology	
ESS 5XX Elective		
Credits		7
Semester Two		
ESS 5XX Elective		3
Select one of the following:		3
ESS 530	Principles of Oceanography	
ESS 536	Environmental Geology	
ESS 5XX Elective		
Credits		6
Summer Session I		
ESS 523	Field Geology of Southeastern Pennsylvania	3
ESS 596	Earth Systems Science	3
Credits		6

Year Two		
Semester Three		
ESS 5XX Elective		3
ESS 5XX Elective		3
Select one of the following:		3
ESS 570	Principles of Meteorology	
ESS 5XX Elective		
Credits		9
Semester Four		
ESS 5XX Elective		2-3
Select one of the following:		3
ESS 530	Principles of Oceanography	
ESS 536	Environmental Geology	
ESS 5XX Elective		
Present Final Project by first week of May		
Credits		5-6
Total Credits		33-34

Starting: Spring Semester

Course	Title	Credits
Year One		
Semester One		
ESS 5xx elective		3
Select one of the following:		3
ESS 530	Principles of Oceanography	
ESS 536	Environmental Geology	
ESS 5xx elective		
Credits		6
Semester Two		
ESS 521	Geometrics	3
ESS 547	Earth and Space Science Seminar	1
Select one of the following:		3
ESS 570	Principles of Meteorology	
ESS 5xx elective		
Credits		7
Summer Session I		
ESS 523	Field Geology of Southeastern Pennsylvania	3
Credits		3
Year Two		
Semester Three		
ESS 5XX Elective		3
Select one of the following:		3
ESS 530	Principles of Oceanography	
ESS 536	Environmental Geology	
ESS 5XX Elective		
Credits		6
Semester Four		
ESS 5xx elective		2-3
Select one of the following:		3
ESS 570	Principles of Meteorology	
ESS 5xx elective		
Credits		5-6

Summer		
ESS 596	Earth Systems Science	3
Credits		3
Total Credits		30-31

ESS 591 can fulfill the 2-credit requirement.

ESS 502, ESS 505, ESS 520, ESS 539, and ESS 543 are recommended courses if planning on taking the Professional Geologist (PG) exam.