

ENVIRONMENTAL SCIENCE - BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1220G College Algebra and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change. Students should meet with their advisor every semester.

First Year

Semester 1		Credits
ENVS 1110G	Environmental Science I	4
ENGL 1110G	Composition I ¹	4
or ENGL 1110H	or Composition I Honors	
Choose from one of the following: ²		3
Area IV: Social and Behavioral Science Course ²		
Area V: Humanities Course ²		
Area VI: Creative and Fine Arts Course ²		
Elective Course ³		3
Students who must be enrolled in 15 credits a semester for Financial Aid purposes will need to enroll in additional elective credits ³		

Credits **14**

Semester 2

Elective Course ³		3
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution (Lab not required)	3
Choose from one of the following:		3
COMM 1115G	Introduction to Communication	
or HNRS 2175G	or Introduction to Communication Honors	
ACOM 1130G	Effective Leadership and Communication in Agriculture	
GEOL 1110G	Physical Geology	4
Choose from one of the following:		3
Area IV: Social Behavioral Course ²		
Area V: Humanities Course ²		
Area V: Creative and Fine Arts Course ²		

Credits **16**

Second Year

Semester 1		Credits
MATH 1511G	Calculus and Analytic Geometry I ¹	4
or MATH 1511H	or Calculus and Analytic Geometry I Honors	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
BIOL 2110G	Principles of Biology: Cellular and Molecular Biology (Lab not required)	3
Choose from one of the following:		3
ENGL 2210G	Professional and Technical Communication	
or ENGL 2210H	or Professional and Technical Communication	
ENGL 2215G	Advanced Technical and Professional Communication	

Choose one from the following: 4

ENVS 457	Water Measurement	
FWCE 434	Aquatic Contaminants and Toxicology	
FWCE 459	Aquatic Ecology	

Students who must be enrolled in 15 credits a semester for Financial Aid purposes will need to enroll in additional elective credits³

Credits **18**

Semester 2

MATH 1521G	Calculus and Analytic Geometry II ¹	4
or MATH 1430G	or Applications of Calculus I	
or MATH 1521H	or Calculus and Analytic Geometry II Honors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ¹	4
Choose from one of the following:		3
Area IV: Social and Behavioral Science Course ²		
Area V: Humanities Course ²		
Area VI: Creative and Fine Arts ²		

Students who must be enrolled in 15 credits a semester for Financial Aid purposes will need to enroll in additional elective credits³

Credits **11**

Third Year

Semester 1		Credits
A ST 311	Statistical Applications ¹	3
SOIL 2110 & 2110L	Introduction to Soil Science and Introduction to Soil Science Laboratory	4
CHEM 2120	Integrated Organic Chemistry and Biochemistry (CHEM 2120 must be taken with associated 1-cr CHEM lab)	3-4
or CHEM 313	or Organic Chemistry I	
GEOG 481	Fundamentals of GIS	4
VWW: Viewing a Wider World Course ⁴		3

Credits **17-18**

Semester 2

ENVS 312	Emergency Response to Hazardous Material Incidents (Spring Only)	2
ENVS 2111 & 2111L	Environmental Engineering and Science and Environmental Science Laboratory	4
ENVS 370	Environmental Soil Science (Spring Only)	3
PHYS 1310G	Calculus -Based Physics I (lab not required)	3

Credits **12**

Fourth Year

Semester 1		Credits
ENVS 462	Sampling and Analysis of Environmental Contaminants (Fall Only)	3
ENVS 452	Geohydrology (Fall Only)	4
ENVS 460	Introduction to Air Pollution (Fall Only)	3
ENVS 361	Basic Toxicology (Fall Only)	3
ENVS 422	Environmental Chemistry	3

Credits **16**

Semester 2

ENVS 470	Environmental Impacts of Land Use and Contaminant Remediation (Spring Only)	3
ENVS 301	Principles of Ecology	3
ENVS 391	Internship	3
VWW: Viewing a Wider World Course ⁴		3
BIOL 311	General Microbiology	3

ENVS 447	Seminar	1
Credits		16
Total Credits		120-121

¹ These courses have prerequisites and it is the students responsibility to check and fulfill all course prerequisites listed for these courses.

² See the General Education (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/>) section of the catalog for a full list of courses.

³ The department recommends utilizing the following courses to fulfill the additional elective credits needed for Financial Aid requirements.

First Year - Semester 1:

- MATH 1220G College Algebra
- ACES 1120 Freshman Orientation

First Year - Semester 2:

- MATH 1250G Trigonometry & Pre-Calculus

⁴ See the Viewing a Wider World (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext>) section of the catalog for a full list of courses.