

EARTH AND SPACE SCIENCE (BS) / NATURAL SCIENCES (MS) - ENVIRONMENTAL SCIENCE TRACK (COMBINED OPTION)

Program Map

Course	Title	Credit Hours
First Year		
Fall		
MATH 1113	Pre-Calculus (minimum grade of C) ¹	4
ENGL 1101	English Composition I (minimum grade of C)	3
CHEM 1211	Principles of Chemistry I (minimum grade of C)	3
CHEM 1211L	Principles of Chemistry I Lab (minimum grade of C)	1
Institutional Priorities	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
ENVS 1205K	Sustainability and the Environment (minimum grade of C)	4
Credit Hours		16
Spring		
Program Electives	BIOL 1215K Principles of Biology (minimum grade of C) ²	4
CHEM 1212	Principles of Chemistry II (minimum grade of C)	3
CHEM 1212L	Principles of Chemistry II Lab (minimum grade of C)	1
ENGL 1102	English Composition II (minimum grade of C)	3
MATH 1131	Calculus with Analytic Geometry I	4
Credit Hours		15
Second Year		
Fall		
STAT 1401	Elementary Statistics (minimum grade of C)	3
ENVS 3105	Foundations of Environmental Science (minimum grade of C) ³	4
Social Sciences	World Cultures (ANTH 1105 is recommended) ⁴	3
PHYS 1111	Introductory Physics I (minimum grade of C)	3
PHYS 1311	Introductory Physics I Lab (minimum grade of C)	1
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
Credit Hours		16

Spring		
PHYS 1112	Introductory Physics II (minimum grade of C)	3
PHYS 1312	Introductory Physics II Lab (minimum grade of C)	1
GEOL 1121	Introductory Geoscience I: Physical Geology (minimum grade of C)	3
GEOL 1121L	Introductory Geoscience I: Physical Geology Lab (minimum grade of C)	1
BIOL 3217K	Ecology (minimum grade of C) ⁵	4
Institutional Priorities	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002	3
Credit Hours		15

Third Year		
Fall		
CHEM 2115	Quantitative Chemical Analysis (minimum grade of C)	3
CHEM 2315	Quantitative Chemical Analysis Lab (minimum grade of C)	1
Arts, Humanities, and Ethics	Humanities	3
GEOL 5255U	Environmental Geology (minimum grade of C)	4
ENVS 5206U	Water Resources Management (minimum grade of C)	4
Credit Hours		15

Spring		
GEOG 2215	Introduction to the Geographic Information Systems (minimum grade of C)	3
ATSC 5117U	Global and Climate Change (minimum grade of C)	3
Program Electives, Group 1	Elective	3-4
Arts, Humanities, and Ethics	Fine Arts	3
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
Credit Hours		15-16

Fourth Year		
Fall		
ENVS 5405U	Topics in Conservation (minimum grade of C)	3-4
POLS 1101	American Government	3
Program Electives, Group 2	5000+G Elective: Environmental Science Seminar suggested	1
Program Electives, Group 2	5000+G Elective: Any course from Area 2 of the graduate program	4
Program Electives	Elective	3-4
Credit Hours		14-16

Spring		
Program Electives, Group 1	Electives	3-4
Program Electives, Group 2	5000+G Elective: Any course from Area 2 of the graduate program	4

Social Sciences Behavioral Science	3
Select one of the following:	3
ENVS 5125U Human Ecology (minimum grade of C)	
ENVS 5226U Culture and Environment (minimum grade of C)	
Health and Wellness PEDS Activity	1
Credit Hours	14-15
Summer	
ENVS 7999 Research in Environmental Science	5
Area 2B Elective (Grad)	3
Credit Hours	8
Fifth Year	
Fall	
ENGL 5149G Grant Writing	3
ENVS 5207G Experimental Design and Statistical Analysis	4
ENVS 7999 Research in Environmental Science	3
Credit Hours	10
Spring	
ENVS 7000 Thesis Defense	0
ENVS 7001 Certification Exam	0
ENVS 7999 Research in Environmental Science	4
ENVS 5715G Earth and Space Sciences Seminar (Grad)	1
ENVS 5235G Geographic Information and Global Positioning Systems	4
Credit Hours	9
Total Credit Hours	147-151

5. Submit research proposal
6. Submit a proposed plan of study (by semester)
7. Submit a recommendation letter from a prospective graduate thesis advisor
8. Score 1000+ on the GRE (New GRE combined 290)
9. Apply for MS NS Environmental Science Track

This program map illustrates appropriate coursework for completing a degree within five years, provided that course grades allow for earned credit. Since not all courses are taught every semester, please consult with your advisor to determine when courses can be taken in a different semester or sequence than illustrated. This map is for illustrative purposes only and does not constitute a legal contract on the part of CSU since degree requirements or course offerings could change.

¹ Substitute MATH 1131 Calculus with Analytic Geometry I for MATH 1113 Pre-Calculus if math placement allows.

² BIOL 1215K Introductory Biology is a prerequisite for BIOL 3217K Ecology.

³ STAT 1401 Elementary Statistics is a coreq for ENVS 3105 Foundations of Environmental Science (Area G).

⁴ ANTH 1105 Cultural Anthropology is a prereq for Culture and the Environment (Area G).

⁵ BIOL 3217K Ecology prereq ESS: BIOL 1215K Introductory Biology, CHEM 1211 Principles of Chemistry I, CHEM 1211L Principles of Chemistry I Lab, CHEM 1212 Principles of Chemistry II, CHEM 1212L Principles of Chemistry II Lab, and ENVS 3105 Foundations of Environmental Science.

Additional Notes

All graduate level courses must be B or better ($\geq B$) to count toward the graduate portion of the degree.

Application Requires:

1. Complete application for admission into this joint BS+MS program.
2. Attain junior standing (62+ credits).
3. Complete both:
 - a. All courses in Area F, and
 - b. At least 15 credits of Area G courses.
4. Achieve minimum institutional GPA of 3.0 overall and 3.5 calculated on all Area G