

**Environmental Science with Teacher Licensure**  
 Department of Earth & Atmospheric Sciences, 303-615-1177, Science Room 2028  
 College of Letters, Arts, and Sciences

Catalog  
2019-2020

This sheet applies to the 2019-20 catalog *only*. It does not replace the full catalog as an official statement of requirements. Students with declared majors *must* work with an advisor on course selection and sequencing to ensure a timely graduation.

General Studies	36 min
Environmental Science Required Courses	57
Education Requirements	34 min
Total to Graduate (Min. 40 hrs. Upper-Division)	126 min

<u>General Studies Course Requirements</u>	<u>Credits</u>	<u>Required Core Courses</u>	<u>Credits</u>
<b><u>Written Communication</u></b>			
___ ENG 1010 Composing Arguments	3	___ ENV 1200 Intro to Environmental Science	3
___ ENG 1020 Freshman Comp: Analysis, Research, & Doc.	3	___ ENV 3400 Water Resources	3
		<i>(Preq. ENV 1200 or GEG 1920)</i>	
		___ ENV 3540 Adv. Geologic & Environmental Hazards	2
		<i>(Preq. 9 credits of GEG or GEL)</i>	
<b><u>Oral Communication</u></b>		___ AST 1052 General Astronomy I	4
___ CAS 1010 Public Speaking	3	___ AST 3050 General Astronomy II	3
		<i>(Preq. AST 1052 or PHY 2010 or PHY 2311)</i>	
<b><u>Quantitative Literacy</u></b>		___ BIO 1080 General Biology I (Co-Req. BIO 1090)	3
___ MTH 1400 Pre-calculus Mathematics	4	___ BIO 1090 General Biology Laboratory I (Co-Req. BIO 1080)	1
<i>(Preq. MTH 1100 &amp; MTH 1120)</i>		___ BIO 1081 General Biology II	3
		<i>(Preq. BIO 1080/1090; Co: BIO 1091)</i>	
<b><u>Arts and Humanities min. 6 credits</u></b>		___ BIO 1091 General Biology Laboratory II	1
___ _____		<i>(Preq. BIO 1080/1090; Co: BIO 1081)</i>	
___ _____		___ CHE 1100 Principles of Chemistry	4
		<i>(MTH 1110 or MTH 1210)</i>	
<b><u>Historical min. 3 credits</u></b>		___ CHE 1150 Principles of Chemistry Lab	1
___ _____		<i>(Co-Req. CHE 1100)</i>	
<b><u>Natural and Physical Sciences</u></b>		___ CHE 2100 Introduction to Organic & Biological Chem	4
___ PHY 2010 College Physics I <i>(Preq. MTH 1120)</i>	4	<i>(Preq. CHE 1100)</i>	
___ PHY 2030 College Physics I Lab <i>(Co-Req PHY 2010)</i>	1	___ CHE 2150 Introduction to Organic & Biological Chem Lab	1
___ PHY 2020 College Physics II <i>(Preq. PHY 2010)</i>	4	<i>(Co-Req. CHE 2100)</i>	
___ PHY 2040 College Physics II Lab <i>(Co-Req PHY 2010)</i>	1	___ GIS 1220 Introduction to Geospatial Science	3
		<i>(Pre-Req. MTH 1110 Recommended)</i>	
<b><u>Social and Behavioral Sciences I min. 3 credits-</u></b>		___ GIS 2250 Geographic Information Systems	3
___ EDS 3150 Issues in Multicultural Education in Urban Schools	3	<i>(Preq. GIS 1220)</i>	
		___ MTH 1210 Introduction to Statistics	4
<b><u>Social and Behavioral Sciences II min. 3 credits</u></b>		___ MTR 1600 Global Climate Change	3
___ EDS 3130 Foundations of Educational Psychology & Philosophy	3	___ GEL 1010 Physical Geology	4
		___ GEL 1020 Geology of Colorado	3
<b><u>Global Diversity</u></b>		___ GEL 1030 Historical Geology <i>(Preq. GEL 1010)</i>	4
___ May be satisfied within General Studies (GD code)			

<u>Pick one of the following</u>	<u>Credits</u>
___ <b>ENV 4960 Global Environmental Challenges</b> <i>(Preq. 12 UD credits of ENV, GEG, GEL, or MTR &amp; Senior Status)</i>	3
___ <b>ENV 4970 Environmental Field Studies</b> <i>(Preq. 12 UD credits of ENV, GEG, GEL, or MTR, &amp; Senior Status)</i>	3

**School of Education Requirements**

**(See your School of Education Advisor for more details on the sequencing of these courses)**

___ <b>EDS 3130 Foundations of Educational Psychology</b> <i>(Co-Req EDS 3140)</i>	4
___ <b>EDS 3140 First Field Experience in Secondary Education</b> <i>(Preq. EDS 3130)</i>	1
___ <b>EDS 3150 Issues in Multicultural Education in Urban Secondary Schools</b> <i>(Co-Preq. EDS 3140 or EDS 3240 or MUS 3351)</i>	3
___ <b>EDT 3010 Integrating Educational Technology into Teaching</b>	3
___ <b>SED 3600 Exceptional Learners in the Classroom</b>	3
___ <b>EDS 3210 Classroom Management, Planning, and Assessment in Secondary Schools</b>	3
___ <b>EDS 3240 Field Experience: Classroom Management, Planning and Assessment in Secondary Schools</b> <i>(Preq. EDS 3130 &amp; EDS 3140 Co-req EDS 3210)</i>	1
___ <b>RDG 3280 Teaching Content Literacy Skills</b> <i>(Preq. EDS 3210, EDS 3240)</i>	3
___ <b>SCI 3950 Teaching Science in Secondary Schools</b> <i>(EDS 3210 &amp; EDS 3240 co-req SCI 3960/ pre or Co RDS 3280)</i>	3
___ <b>SCI 3960 Field Experience in Teaching Science in Secondary Schools</b> <i>(60-hour field experience)</i> <i>(EDS 3210 &amp; EDS 3240 co SCI 3950 Pre /Co RDG 3280)</i>	1
___ <b>EDS 4290 Student Teaching and Seminar: Secondary 7-12</b>	6, 12

Degree seeking candidates who wish to obtain Colorado licensure for Secondary Science Licensure with a major in Environmental Science must earn a Bachelor of Arts (BA) degree. The interdisciplinary requirements for the Environmental Science major with a concentration in Secondary Science is designed to ensure that the Environmental Science education program meets the Colorado Science Licensure Standards and addresses the objectives of the Science content area examination. The core curriculum provides a firm foundation in Biology, Physics, Chemistry, Earth-Space Science, and Mathematics. The Colorado Academic Standards in Science are also strongly emphasized within the curriculum. Science Licensure candidates must declare their major with the appropriate concentration in Secondary Science Licensure.

*Updated 9/6/2019*