

# BACHELOR OF SCIENCE IN EARTH AND ATMOSPHERIC SCIENCES - GENERAL

Code	Title	Credit Hours
<b>Wellness</b>		
APPH 1040	Scientific Foundations of Health or APPH 10 The Science of Physical Activity and Health or APPH 10 Flourishing: Strategies for Well-being and Resilience	2
<b>Core A - Essential Skills</b>		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
MATH 1552	Integral Calculus <sup>2</sup>	4
<b>Core B - Institutional Options</b>		
CS 1371	Computing for Engineers <sup>2</sup>	3
<b>Core C - Humanities</b>		
Any HUM		6
<b>Core D - Science, Math, &amp; Technology</b>		
PHYS 2211	Introductory Physics I <sup>2</sup>	4
CHEM 1211K	Chemical Principles I	4
MATH 1551	Differential Calculus <sup>2</sup>	2
MATH 1553	Introduction to Linear Algebra <sup>2</sup>	2
<b>Core E - Social Sciences</b>		
Select one of the following:		3
HIST 2111	The United States to 1877	
HIST 2112	The United States since 1877	
INTA 1200	American Government in Comparative Perspective	
POL 1101	Government of the United States	
PUBP 3000	American Constitutional Issues	
Any SS		9
<b>Core F - Courses Related to Major</b>		
MATH 2551	Multivariable Calculus <sup>2</sup>	4
MATH 2552	Differential Equations <sup>2</sup>	4
CHEM 1212K	Chemical Principles II or PHYS 2212 Introductory Physics II	4
EAS Technical Electives		5
<b>EAS Core</b>		
EAS 1600	Introduction to Environmental Science	4
EAS 2600	Earth Processes	4
EAS 2655	Quantitative Techniques in Earth and Atmospheric Sciences	3
EAS 3603	Thermodynamics of Earth Systems	3
Select two of the following:		6
EAS 3610	Introduction to Geophysics	
EAS 4200	Structural Geology and Continuum Mechanics <sup>4</sup>	
EAS 4220	Environmental Geochemistry	
EAS 4305	Physical and Chemical Oceanography	
EAS 4370	Physics of Planets	

EAS 4655	Atmospheric Dynamics	
EAS 4740	Atmospheric Chemistry Laboratory	
Select one of the following:		1
EAS 4200	Structural Geology and Continuum Mechanics <sup>4</sup>	
EAS 4221	Environmental Geochemistry Lab	
EAS 4656	Atmospheric Dynamics Practicum	
EAS Capstone <sup>5</sup>		7
EAS 4420	Environmental Field Methods	
EAS 4610	Earth System Modeling Research Option	
<b>EAS Technical Electives</b>		
Select 14 credit hours from the following: <sup>1</sup>		14
CEE 4210	Hydrology	
CEE 4300	Environmental Engineering Systems	
CEE 4330	Air Pollution Engineering	
EAS 1601	Habitable Planet	
EAS 2420	Environmental Measures of Urban and Regional Change	
EAS 2551	Introduction to Meteorological Analysis	
EAS 2750	Physics of the Weather	
EAS 3000-level or higher		
<b>Free Electives</b>		
Free Electives <sup>3</sup>		18
<b>Total Credit Hours</b>		<b>122</b>

Pass/fail allowed only for Humanities, Social Sciences, and Free Electives.

<sup>1</sup> Limit six credit hours total of EAS 4699 and EAS 4651 towards Technical Electives.

<sup>2</sup> Minimum grade of C required.

<sup>3</sup> GT 1000 recommended

<sup>4</sup> If EAS 4200 is completed, then 1-credit hour may be applied to satisfy the EAS Breadth Lab Elective requirement.

<sup>5</sup> Students must pick 2 of 3 to complete EAS Capstone.