BACHELOR OF SCIENCE IN ATMOSPHERIC AND OCEANIC SCIENCES

Code	Title	Credit Hours
Wellness Requirement		
APPH 1040	Scientific Foundations of Health	2
or APPH 10	The Science of Physical Activity and Health	
or APPH 10	Flourishing: Strategies for Well-being and Resilience	
Core IMPACTS		
Institutional Priority		
CS 1301	Introduction to Computing	3
or CS 1371	Computing for Engineers	
Mathematics and Quantitative Skills		
MATH 1552	Integral Calculus	4
Political Science and U.S. History		
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	
Art, Humanities, and Ethics [1]		
Any HUM		6
Communicating in Writing		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Technology, Mathematics, and Sciences		
Lab Science		8
MATH 1551	Differential Calculus	2
MATH 1553	Introduction to Linear Algebra	2
Social Sciences [1]		
Any SS		9
Field of Study		
PHYS 2212	Principles of Physics II	4
MATH 2551	Multivariable Calculus	4
MATH 2552	Differential Equations	4
EAS 1600	Introduction to Environmental Science	4
EAS 2551	Introduction to Meteorological Analysis	1
Major Requirements		
EAS 2655	Quantitative Techniques in Earth and Atmospheric Sciences	3
EAS 2750	Physics of the Weather	3
EAS 3603	Thermodynamics of Earth Systems	3
EAS 4655 & EAS 4656	Atmospheric Dynamics and Atmospheric Dynamics Practicum	4
EAS 4740	Atmospheric Chemistry Laboratory	3
or EAS 4670	Atmospheric Dynamics II	
or EAS 4305	Physical and Chemical Oceanography	
EAS 4801	Special Topics (Career Development Seminar)	1
Select 7 credit hours from the following:		7
EAS 4420	Environmental Field Methods	
EAS 4814	Special Topics-Lab (Geophysical Field Methods)	
EAS 4610	Earth System Modeling	
Research Option		
AOS Technical Electives		**15**
CHEM 1212K	Chemical Principles II	
EAS 3110	Energy, Environment, and Society	
EAS 4300	Introduction to Physical and Chemical Oceanography	
EAS 4305	Physical and Chemical Oceanography	
EAS 4410	Climate and Global Change	
EAS 4450	Synoptic Meteorology	
EAS 4525	Weather Risk and Catastrophe Modeling	
EAS 4470	Large-scale Atmospheric Circulations	
EAS 4740	Atmospheric Chemistry Laboratory	
EAS 4420	Environmental Field Methods	
EAS 4480	Environmental Data Analysis	
EAS 4610	Earth System Modeling	
EAS 4651	Practical Internship	
EAS 4670	Atmospheric Dynamics II	
EAS 4695	Undergraduate Internship	
EAS 4698	Undergraduate Research Assistantship	
EAS 4699	Undergraduate Research	
EAS 4803	Special Topics (Tropical Dynamics)	
EAS 4803	Special Topics (Glacial and Ice Sheet Dynamics)	
EAS 4813	Special Topics (Mesoscale Meteorology)	
EAS 4814	Special Topics-Lab (Geophysical Field Methods)	
Free Electives [1,2]		**21**
Total Credit Hours		**122**

1. Pass/Fail allowed only for Free electives
2. Nine (9) hours must be 3000-4000-level. Students must complete at least 39 hours of 3000-4000 level coursework.