CLIMATE CHANGE AND SOLUTIONS (B.S.)

Required coursework includes the university requirements (see regulation ${\sf J}$) and:

Code	Title	Hours		
ENGL 317	Technical Writing II	3		
or ENGL 318	Science Writing			
ENGL 322	Climate Change Fiction	3		
GEOG 100	Introduction to Planet Earth	4		
& 100L	and Introduction to Planet Earth Lab			
or GEOL 101	Physical Geology			
& 101L	and Physical Geology Lab			
or GEOL 111 & 111L	Physical Geology for Science Majors and Physical Geology for Science Majors Lab			
or GEOL 102 & 102L	Historical Geology and Historical Geology Lab			
GEOG 165	Human Geography	3		
GEOG 200	World Cultures and Globalization	3		
GEOG 301	Meteorology	3		
GEOG 313	Global Climate Change	3		
GEOG 385	Foundations of GIS	3		
GEOG 401	Climatology	3		
GEOG 411	Natural Hazards and Society	3		
GEOG 430	Climate Change Ecology	3		
GEOG 435	Climate Change Mitigation	3		
GEOG 488	Geography of Energy Systems	3		
GEOG 493	Senior Capstone in Geography	3		
GEOL 212	Dinosaurs and Prehistoric Life	4		
MATH 143	College Algebra	3		
SOC 101	Introduction to Sociology	3		
SOC 466	Climate Change and Society	3		
SOIL 436	Principles of Sustainability	3		
STAT 251	Statistical Methods	3		
Select one of the following courses: 3				
IS 322	International Environmental Governance			
NRS/POLS 462	Natural Resource Policy			
POLS 364	Politics of the Environment			
Select at least 18 credits from Elective Bin 1 and at least 9 credits 27 from Elective Bin 2.				
Elective Bin 1 (Bio	physical Science)			
BE 453	Northwest Climate and Water Resources Change	9		
GEOG 317	Tree Rings and Environmental Change			
GEOL 309	Ground Water Hydrology			
GEOL 435	Glaciology and the Dynamic Frozen Earth			
GEOL 462	Petroleum Systems and Energy Transitions			
GEOL 467	Volcanology (* Only will count for one track)			
GEOL 471	Ore Deposits and Exploration			
Elective Bin 2 (Human Dimensions)				
ENVS 415	Environmental Lifecycle Assessment			

POLS 364 SOC 465 SOIL 210 SOIL 427	Politics of the Environment Environmental Justice Introduction to Food Systems Sustainable Food Systems	
SOC 465	Environmental Justice	
POLS 364	Politics of the Environment	
NRS/POLS 462	Natural Resource Policy	
IS 322	International Environmental Governance	
GEOL 467	Volcanology	
GEOG 420	Land, Resources, and Environment	
GEOG 350	Sustainability of Global Development	
ENVS 485	Energy Efficiency and Conservation	
ENVS 484	History of Energy	
ENVS/AGEC 477	Law, Ethics, and the Environment	
	477 ENVS 484 ENVS 485 GEOG 350 GEOG 420 GEOL 467 IS 322 NRS/POLS	477 ENVS 484 History of Energy ENVS 485 Energy Efficiency and Conservation GEOG 350 Sustainability of Global Development GEOG 420 Land, Resources, and Environment GEOL 467 Volcanology IS 322 International Environmental Governance NRS/POLS Natural Resource Policy

Note that GEOL 467 Volcanology only counts for one bin. If NRS 462/POLS 462, IS 322, or POLS 364 are taken as part of the core curriculum, they do not count for credit in Elective Bin 2.

Courses to total 120 credits for this degree.

Fall Term 1		Hours		
ENGL 101	Writing and Rhetoric I	3		
GEOG 100 & 100L or GEOL 101 and GEOL 101L or GEOL 111 and GEOL 111L or GEOL 102 and GEOL 102L	Introduction to Planet Earth or Physical Geology and Physical Geology Lab or Physical Geology for Science Majors and Physical Geology for Science Majors Lab or Historical Geology and Historical Geology Lab	4		
Oral Communication Cour	se	3		
Elective Course		2		
MATH 143	College Algebra	3		
or MATH 160	or Survey of Calculus			
or MATH 170	or Calculus I			
or MATH 175	or Calculus II			
	Hours	15		
Spring Term 1				
ENGL 102	Writing and Rhetoric II	3		
GEOG 165	Human Geography	3		
SOC 101	Introduction to Sociology	3		
STAT 251	Statistical Methods	3		
Humanistic and Artistic Ways of Knowing Course (ENGL 322 rec)				
	Hours	15		
Fall Term 2				
GEOL 212	Dinosaurs and Prehistoric Life	4		
GEOG 313	Global Climate Change	3		
ENGL 317 or ENGL 318	Technical Writing II or Science Writing	3		
Scientific Ways of Knowin	g Course (if needed)	4		
Elective		1		
	Hours	15		
Spring Term 2				
GEOG 385	Foundations of GIS	3		
GEOG 200	World Cultures and Globalization	3		
Elective Bin 1 Course		3		
Policy Course Elective		3		
Elective Course		3		
	Hours	15		

Fall Term 3 GEOG 411 Natural Hazards and Society 3 Elective Bin 1 Course 3 Humanistic and Artistic Ways of Knowing Course 3 GEOG 301 Meteorology 3 GEOG 488 Geography of Energy Systems 3 15 Hours Spring Term 3 **GEOG 401** Climatology 3 American Diversity Course 3 Elective Bin 1 Course 3 **GEOG 430** Climate Change Ecology 3 SOC 466 Climate Change and Society 3 15 Hours Fall Term 4 **GEOG 435** Climate Change Mitigation 3 GEOG 493 Senior Capstone in Geography 3 Elective Bin 1 Course 3 Elective Bin 2 Course 3 **Elective Course** 3 15 Hours Spring Term 4 SOIL 436 Principles of Sustainability 3 Elective Bin 1 Course 3 Elective Bin 1 Course 3 Elective Bin 2 Course 3 Elective Bin 2 Course 3 15 Hours **Total Hours** 120

- Explain the physical, chemical, and biological processes that govern the Earth's climate system and how people influence the climate system.
- Understand and explain climate change impacts on both human and natural systems, and be able to identify regions, ecosystems, and groups most vulnerable to climate change
- 3. Demonstrate knowledge about the strategies for mitigating climate change and options for adapting to its impact.
- 4. Communicate climate science and solutions in an effective manner to a variety of audiences, including stakeholders and the general public.