

B.S. EARTH AND SPATIAL SCIENCES: Hydrology and Climate Option

**Ask About Our
Available
Scholarships**

SECURING WATER RESOURCES

RECOMMENDED 4-YEAR PLAN

This degree addresses one of the most pressing challenges that our world has witnessed in generations. Given the scale and magnitude of climate-driven stressors on the food, water, and energy systems, alongside the challenges associated with climate driven disasters such as wildfires, hurricanes, floods, droughts, and pests; this degree provides graduates with the knowledge and skills to lead in solving climate science problems. Graduates of the Hydrology and Climate Option will gain an in-depth scientific understanding they need to assess climate impacts from both human-induced climate change and natural climate variability, as well as finding solutions to manage and mitigate them. Career paths will include meteorology, climatology, non-governmental organizations, land management agencies, data analysts, media companies, among many others.

FRESHMAN	FALL
COURSE	CREDITS
GEOG 100/GEOG 100L OR GEOL 101/101L OR GEOL 111/111L OR GEOL 102/102L	4
ENGL 101 - College Writing & Rhetoric I	3
General Education Requirement	3
General Education Requirement	3
MATH 143	3
TOTAL 16	

FRESHMAN	SPRING
COURSE	CREDITS
ENGL 102* - College Writing & Rhetoric (ENGL 101)	<i>Writ Comm</i> 3
CHEM 111/111L General Chemistry	4
MATH 170 - Calculus	4
GEOG 165 Human Geography OR GEOG 200 World Cultures and Globalization	3
TOTAL 14	

SOPHOMORE	FALL
COURSE	CREDITS
GEOL 309 - Ground Water Hydrology	3
GEOG 313 - Global Climate Change	3
MATH 175 - Calculus II	4
PHYS 211/211L	4
TOTAL 14	

SOPHOMORE	SPRING/ SUMMER
COURSE	CREDITS
STAT 251 - Statistical Methods	3
GEOG 385 - Foundations of GIS	3
Geology/Geography Elective	3
Elective(s)	6
Summer: Field Geology Methods	3
TOTAL 18	

This academic plan is intended as a guideline only and does not replace academic advising. 120 credits minimum are required for a B.S. in Earth and Spatial Sciences. Minimum of 36 upper-division credits required to graduate. See course catalog and department website for complete degree requirements and additional information.

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RECOMMENDED 4-YEAR PLAN

JUNIOR		FALL
COURSE		CREDITS
ENGL 317 - Technical Writing		3
GEOL 410 - Groundwater Field Methods		3
HYDR 409 - Quantitative Hydrology		3
GEOG 424 - Hydrological Applications of GIS and Remote Sensing		3
Elective		3
		TOTAL 15

JUNIOR		SPRING/ SUMMER
COURSE		CREDITS
General Education Requirement		3
General Education Requirement		3
Elective(s)		7
Summer: Geology Field Camp		3
		TOTAL 16

SENIOR		FALL
COURSE		CREDITS
Geology/Geography Elective		3
General Education Requirement		3
Elective		3
Elective		3
Elective		3
		TOTAL 15

SENIOR		SPRING
COURSE		CREDITS
GEOG 493 - Senior Capstone in Geography		3
GEOG 401 - Climatology		3
HYDR 412 - Environmental Hydrology		3
General Education Requirement		3
Elective		2
		TOTAL 14



READY TO GET STARTED?



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