

## Hydrology and Water, Climate, Energy, and Global Issues

Created using checksheet for students entering under UG Catalog 2023-2024

Updated June 2023

### FIRST YEAR - FALL SEMESTER

Course	Credits	Requirement
Pathways 1 Foundational Course (Select from University Approved List)	3	Pathways 1f
WATR/GEOG 2004 Water, Environment, and Society	3	Core
MATH 1025 Elementary Calculus <sup>1</sup>	3	Pathways 5f
Pathways Concept 2 Course (Select from University Approved List)	3	Pathways 2
Pathways Concept 3 Course (Select from University Approved List)	3	Pathways 3
Total Credits	15	

### FIRST YEAR - SPRING SEMESTER

Course	Credits	Requirement
Pathways 1 Foundational Course (Select from University Approved List)	3	Pathways 1f
BIOL 1106 Principles of Biology	3	Pathways 4
BIOL 1116 Principles of Biology Lab	1	Major
MATH 1026 Elementary Calculus <sup>2</sup>	3	Pathways 5f
AAEC 1005 Economics of Food & Fiber <sup>3</sup> *	3	Pathways 3
Pathways Concept 2 Course (Select from University Approved List)	3	Pathways 2
Total Credits	16	

### SECOND YEAR - FALL SEMESTER

Course	Credits	Requirement
CHEM 1035 General Chemistry	3	Pathways 4
CHEM 1045 General Chemistry Lab	1	Major
GEOG 2084 Principles of GIS (Option for Major Requirement) <sup>4</sup>	3	Major
PHYS 2205 General Physics	3	Core
PHYS 2215 General Physics Lab	1	Major
FREC/SBIO 2784 Global Forest Sustainability	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) <sup>4</sup>
Total Credits	14	

### SECOND YEAR - SPRING SEMESTER

Course	Credits	Requirement
GEOS 1004 Earth Science: Our Past, Present, and Future *	3	Restricted Elective
Restricted Elective (Select from checksheet)	3	Restricted Elective
Pathways Concept 6 Course (Select from University Approved List)	3	Pathways 6
Pathways Concept 7 Course (Select from University Approved List)	3	Pathways 7
Free Elective	3	Free Elective
Total Credits	15	

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### THIRD YEAR - FALL SEMESTER

Course	Credits	Requirement
ENGL 3764 Technical Writing	3	Pathways 1a
ENSC 3604 Fundamentals on Environmental Science *	3	Core
PSCI/UAP 3344 Global Environmental Sustainability: Interdisciplinary Perspectives	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) <sup>4</sup>
Restricted Elective (Select from checksheet)	3	Restricted Elective
Pathways Concept 6 Course (Select from University Approved List)	3	Pathways 6
Total Credits	15	

### THIRD YEAR - SPRING SEMESTER

Course	Credits	Requirement
FREC/WATR 3104 Principles of Watershed Hydrology	3	Core
AAEC 3314 Environmental Law (Option for Major Requirement) <sup>4</sup>	3	Major
CSES/ENSC 3134 Soils in the Landscape *	3	Restricted Elective
CSES/GEOG/GEOS 3304 Geomorphology	3	Water Science Specialization (Hydrology) <sup>4</sup>
GEOS 3014 Environmental Geosciences	3	Water Science Specialization (Hydrology) <sup>4</sup>
Total Credits	15	

### FOURTH YEAR - FALL SEMESTER

Course	Credits	Requirement
FREC/WATR 3754 Watersheds and Water Quality Monitoring	3	Core
FREC 4354 Forest Soil and Watershed Management	3	PW5a and Water Science Specialization (Hydrology) <sup>4</sup>
GEOG/GEOS 4134 Interdisciplinary Issues and Ethics in Water Resources	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) <sup>4</sup>
GEOS 4314 Coastal Hazards	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) <sup>4</sup>
Free Elective	3	Free Elective
Total Credits	15	

### FOURTH YEAR - SPRING SEMESTER

Course	Credits	Requirement
ALS/WATR 4614 Watershed Assessment, Management, and Policy	2	Core
FREC/WATR 4464 Water Resources Policy & Economics	3	Core
GEOS 4804 Groundwater Hydrology	3	Water Science Specialization (Hydrology) <sup>4</sup>
Restricted Elective (Select from checksheet)	3	Restricted Elective
Free Elective	4	Free Elective
Total Credits	15	
<b>Total Degree Credits</b>	<b>120</b>	

<sup>1</sup> Students can choose MATH 1025 (3 credits) or MATH 1225 (4 credits)

<sup>2</sup> Students can choose MATH 1026 (3 credits) or MATH 1226 (4 credits)

<sup>3</sup> Students can choose AAEC 1005 Economics of the Food & Fiber or ECON 2005 Principles of Economics

<sup>4</sup> Students can choose from approved list on checksheet

\* Classes noted with \* are prerequisites as follows:

AAEC 1005 is a prerequisite for WATR/FREC 4464

GEOS 1004 is a prerequisite for CSES/GEOG/GEOS 3304 and GEOS 4314

ENSC 3604 is a prerequisite for WATR/FREC 3754

CSES/ENSC 3134 is a prerequisite for FREC 4354