

Aquatic Ecosystems and Water, Climate, Energy, and Global Issues

Created using checksheet for students entering under UG Catalog 2021-2022

Updated April 12, 2023

FIRST YEAR - FALL SEMESTER

Course	Credits	Requirement
Pathways 1 Foundational Course (Select from University Approved List)	3	Pathways 1f
WATR 2004 Water, Environment, and Society	3	Core
MATH 1025 Elementary Calculus ¹	3	Pathways 5f
AAEC 1005 Economics of Food & Fiber ² *	3	Pathways 3
Pathways Concept 2 Course (Select from University Approved List) ³	3	Pathways 2
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 ⁴	3	Pathways 5f
AAEC 1006 Economics of Food & Fiber ²	3	Pathways 3
Pathways Concept 2 Course (Select from University Approved List) ³	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)	3	Major
PHYS 2205 General Physics	3	Core
PHYS 2215 General Physics Lab	1	Major
BIOL 1105 Principles of Biology *	3	Restricted Elective
Total Credits	14	

SECOND YEAR - SPRING SEMESTER

Course	Credits	Requirement
BIOL 2804 Ecology *	3	Restricted Elective
FREC 2004 Forest Ecosystems	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) ⁵
FREC 2124 Forests, Society & Climate	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) ⁵
Pathways Concept 6 Course (Select from University Approved List)	3	Pathways 6
Free Elective	3	Free Elective
Total Credits	15	

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THIRD YEAR - FALL SEMESTER

Course	Credits	Requirement
ENGL 3534 Literature and the Environment	3	Pathways 1a
ENSC 3604 Fundamentals on Environmental Science *	3	Core
PSCI/UAP 3344 Global Environmental Issues: Interdisciplinary Perspectives	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) ⁵
GEOG 4134 Interdisciplinary Issues and Ethics in Water Resources	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) ⁵
Restricted Elective (Select from checksheet)	3	Restricted Elective
Total Credits	15	

THIRD YEAR - SPRING SEMESTER

Course	Credits	Requirement
FREC/WATR 3104 Principles of Watershed Hydrology	3	Core
AAEC 3314 Environmental Law	3	Major
CSES/ENSC 3134 Soils in the Landscape *	3	Restricted Elective
Pathways Concept 7 Course (Select from University Approved List)	3	Pathways 7
Free Elective	3	Free Elective
Total Credits	15	

FOURTH YEAR - FALL SEMESTER

Course	Credits	Requirement
FREC/WATR 3754 Watersheds and Water Quality Monitoring	3	Core
BIOL 4004 Freshwater Ecology	4	Water Science Specialization (Aquatic Ecosystems) ⁵
FREC 4374 Forested Wetlands	3	Water Science Specialization (Aquatic Ecosystems) ⁵
Pathways Concept 6 Course (Select from University Approved List)	3	Pathways 6
Pathways Concept 5a Course (Select from University Approved List)	3	Pathways 5a
Total Credits	16	

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
FIW 4614 Fish Ecology	3	Water Science Specialization (Aquatic Ecosystems) ⁵
ENSC/CSES 4314 Water Quality	3	Water Science Specialization (Other) ⁵
Restricted Elective (Select from checksheet)	3	Restricted Elective
Free Elective	1	Free Elective
Total Credits	15	
Total Degree Credits	121	

¹ Students can choose MATH 1025 (3 credits) or MATH 1225 (4 credits)

² Students can choose AAEC 1005/1006 Economics of the Food & Fiber or ECON 2005/2006 Principles of Economics

³ FREC 2254 or HIST 3144 are recommended Pathways 2 Courses for WRPM students

⁴ Students can choose MATH 1026 (3 credits) or MATH 1226 (4 credits)

⁵ Students can choose from approved list on checksheet

* Classes noted with * are prerequisites as follows:

AAEC 1005 is a prerequisite for WATR/FREC 4464

BIOL 1105 is a prerequisite for BIOL 2804

BIOL 2804 is a prerequisite for BIOL 4004

ENSC 3604 is a prerequisite for WATR/FREC 3754 and ENSC/CSES 4314

CSES/ENSC 3134 is a prerequisite for FREC 4374