

Hydrology and Water Planning, Policy, and Economics

Created using checksheet for students graduating in calendar year 2022

Updated April 25, 2022

FIRST YEAR

FALL SEMESTER

Class Number	Class Name	Hours	Requirement
	Pathways 1 Foundational Course (Select from University Approved List)	3	Pathways 1f
WATR 2004	Water, Environment, and Society	3	Core
MATH 1225	Calculus of a Single Variable ¹ *	4	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 16

FIRST YEAR

SPRING SEMESTER

Class Number	Class Name	Hours	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 1226	Calculus of a Single Variable ⁴ *	4	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 17

SECOND YEAR

FALL SEMESTER

Class Number	Class Name	Hours	Requirement
CHEM 1035	General Chemistry	3	Pathways 4
CHEM 1045	General Chemistry Lab	1	Major
PHYS 2205	General Physics	3	Core
PHYS 2215	General Physics Lab	1	Major
GEOG 2084	Principles of Geographic Information Systems (Option for Major Requirement) ⁵	3	Major
FREC/SBIO 2784	Global Forest Sustainability	3	Water Policy Specialization (Other) ⁵

Total Credits 14

SECOND YEAR

SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
GEOS 1004	Earth Science: Our Past, Present, and Future *	3	Restricted Elective
PHYS 2206	General Physics ⁶	3	General Elective
	Restricted Elective	3	Restricted Elective
	Free Elective	3	Free Elective
	Pathways Concept 6 Course (Select from University Approved List) ⁷	3	Pathways 6

Total Credits 15

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THIRD YEAR

FALL SEMESTER

Class Number	Class Name	Hours	Requirement
ENGL 3534	Literature and the Environment (Option for Pathway 1a) ⁵	3	Pathways 1a
ENSC 3604	Fundamentals of Environmental Science *	3	Core
UAP 3354	Introduction to Environmental Policy & Planning	3	Water Policy Specialization (Water Planning, Policy, and Economics) ⁵
Restricted Elective		3	Restricted Elective
Free Elective		3	Free Elective

Total Credits 15

THIRD YEAR

SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
FREC/WATR 3104	Principles of Watershed Hydrology	3	Core
AAEC 3314	Environmental Law (Option for Major Requirement) ⁵	3	Major
CSES/ENSC 3134	Soils in the Landscape *	3	Restricted Elective
GEOS 3014	Environmental Geosciences	3	Water Science Specialization (Hydrology) ⁵
Pathways Concept 6 Course (Select from University Approved List) ⁷		3	Pathways 6

Total Credits 15

FOURTH YEAR

FALL SEMESTER

Class Number	Class Name	Hours	Requirement
FREC/WATR 3754	Watersheds and Water Quality Monitoring	3	Core
FREC/AAEC/WATR 4464	Water Resources Policy & Economics	3	Core
FREC 4354	Forest Soil and Watershed Management	3	PW5a ⁸ and Water Science Specialization (Hydrology) ⁵
FREC 4374	Forested Wetlands	3	Water Science Specialization (Other) ⁵
FREC 4014	Natural Resources Economics *	3	Water Policy Specialization (Water Planning, Policy, and Economics) ⁵

Total Credits 15

FOURTH YEAR

SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
ALS/NR/WATR 4614	Watershed Assessment, Management, and Policy	2	Core
GEOS 4804	Groundwater Hydrology	3	Water Science Specialization (Hydrology) ⁵
FREC 4434	Natural Resource Policy	3	Water Policy Specialization (Water Planning, Policy, and Economics) ⁵
Pathways Concept 7 Course (Select from University Approved List)		3	Pathways 7
Free Elective		3	Free Elective
Free Elective		1	Free Elective

Total Credits 15

122 Hours

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

⁶ 6 credits of physics are a requirement for federal entry-level hydrology jobs

⁷ FREC 4554 Creating the Ecological City is a recommended Pathways 6 Course for WRPM Students

⁸ FREC 3004 or FREC 4354 are recommended Pathways 5a Courses for WRPM students

* Classes noted with * are prerequisites as follows:

MATH 1225 and 1226 are prerequisites for GEOS 4804

GEOS 1004 is a prerequisite for GEOS 3304

AAEC 1005 is a prerequisite for FREC 4014 and WATR/FREC 4464

GEOS 1004 is a prerequisite for GEOS 3014

CSES/ENSC 3134 is a prerequisite for FREC 4354 and FREC 4374

ENSC 3604 is a prerequisite for WATR/FREC 3754

FREC 4014 is a prerequisite for FREC 4434