

## Hydrology and Water Planning, Policy, and Economics

Created using checksheet for students graduating in calendar year 2022

Updated Oct 12, 2021

### 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 <sup>1</sup> *	4	Pathways 5f
AAEC 1005	Economics of Food & Fiber <sup>2</sup> *	3	Pathways 3
	Pathways Concept 2 Course (Select from University Approved List) <sup>3</sup>	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 <sup>4</sup> *	4	Pathways 5f
AAEC 1006	Economics of Food & Fiber <sup>2</sup>	3	Pathways 3
	Pathways Concept 2 Course (Select from University Approved List) <sup>3</sup>	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) <sup>5</sup>	3	Major
FREC/SBIO 2784	Global Forest Sustainability	3	Water Policy Specialization (Other) <sup>5</sup>

**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 <sup>6</sup>	3	General Elective
	Restricted Elective	3	Restricted Elective
	Free Elective	3	Free Elective
	Pathways Concept 6 Course (Select from University Approved List) <sup>7</sup>	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) <sup>5</sup>	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) <sup>5</sup>
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) <sup>5</sup>	3	Major
CSES/ENSC 3134	Soils in the Landscape *	3	Restricted Elective
GEOS 3014	Environmental Geosciences	3	Water Science Specialization (Hydrology) <sup>5</sup>
Pathways Concept 6 Course (Select from University Approved List) <sup>7</sup>		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 <sup>8</sup> and Water Science Specialization (Hydrology) <sup>5</sup>
FREC 4374	Forested Wetlands	3	Water Science Specialization (Other) <sup>5</sup>
FREC 4014	Natural Resources Economics *	3	Water Policy Specialization (Water Planning, Policy, and Economics) <sup>5</sup>

**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) <sup>5</sup>
FREC 4434	Natural Resource Policy	3	Water Policy Specialization (Water Planning, Policy, and Economics) <sup>5</sup>
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**

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

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

<sup>3</sup> FREC 2254 or HIST 3144 are recommended Pathways 2 Courses for WRPM students

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

<sup>5</sup> Students can choose from approved list on checksheet

<sup>6</sup> 6 credits of physics are a requirement for federal entry-level hydrology jobs

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

<sup>8</sup> 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