

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

Created using checklist for students graduating in calendar year 2022

Updated Oct 26, 2020

### FIRST YEAR

#### FALL SEMESTER

Class Number	Class Name	Hours	Requirement
Pathways 1 Foundational Course (Select from University Approved List)			Pathways 1f
CHEM 1035	General Chemistry	3	Pathways 4
CHEM 1045	General Chemistry Lab	1	Major
MATH 1025	Elementary Calculus <sup>1</sup>	3	Pathways 5f
AAEC 1005	Economics of Food & Fiber <sup>2</sup> *	3	Pathways 3
WATR 2004	Water, Environment, and Society	3	Core

**Total Credits 16**

### FIRST YEAR

#### SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
Pathways 1 Foundational Course (Select from University Approved List)			Pathways 1f
BIOL 1106	Principles of Biology	3	Pathways 4
BIOL 1116	Principles of Biology Lab	1	Major
MATH 1026	Elementary Calculus <sup>3</sup>	3	Pathways 5f
AAEC 1006	Economics of Food & Fiber <sup>2</sup>	3	Pathways 3
Pathways Concept 2 Course (Select from University Approved List) <sup>4</sup>			Pathways 2

**Total Credits 16**

### SECOND YEAR

#### FALL SEMESTER

Class Number	Class Name	Hours	Requirement
Pathways Concept 2 Course (Select from University Approved List) <sup>4</sup>			Pathways 2
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
BIOL 1105	Principles of Biology *	3	Restricted Elective

**Total Credits 13**

### SECOND YEAR

#### SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
BIOL 2804	Ecology *	3	Restricted Elective
FREC 2124	Forests, Society, & Climate	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) <sup>5</sup>
Restricted Elective			Restricted Elective
Free Elective			Free Elective
Pathways Concept 6 Course (Select from University Approved List) <sup>5</sup>			Pathways 6

**Total Credits 15**

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

Created using checksheet for students graduating in calendar year 2022

Updated Oct 26, 2020

### 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
	Restricted Elective	3	Restricted Elective
	Free Elective	3	Free Elective
	Pathways Concept 6 Course (Select from University Approved List) <sup>6</sup>	3	Pathways 6

**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>3</sup>	3	Major
CSES/ENSC 3134	Soils in the Landscape *	3	Restricted Elective
FREC 3604	Climate Science	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) <sup>5</sup>
GEOG 3104	Environmental Problems, Population, & Development	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) <sup>5</sup>

**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
BIOL 4004	Freshwater Ecology	4	Water Science Specialization (Aquatic Ecosystems) <sup>5</sup>
FREC 4374	Forested Wetlands	3	Water Science Specialization (Aquatic Ecosystems) <sup>5</sup>
FREC 4354	Forest Soil and Watershed Management	3	PW5a <sup>7</sup> and Water Science Specialization (Other) <sup>5</sup>

**Total Credits 16**

### FOURTH YEAR SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
ALS/NR/WATR 4614	Watershed Assessment, Management, and Policy	2	Core
FIW 4614	Fish Ecology	3	Water Science Specialization (Aquatic Ecosystems) <sup>5</sup>
GEOG/GEOS 4134	Interdisciplinary Issues and Ethics in Water Resources	3	Water Policy Specialization (Water, Climate, Energy, and Global Issues) <sup>5</sup>
	Free Elective	1	Free Elective
	Free Elective	3	Free Elective
	Pathways Concept 7 Course (Select from University Approved List)	3	Pathways 7

**Total Credits 15**

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

<sup>4</sup> FREC 2254 or HIST 3144 are recommended Pathways 2 Courses for WRPM students

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

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

<sup>7</sup> FREC 3004 or FREC 4354 are recommended Pathways 5a Courses for WRPM students

\* 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

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