

## Aquatic Ecosystems 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 1025	Elementary Calculus <sup>1</sup>	3	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** 15

### 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 1026	Elementary Calculus <sup>4</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>3</sup>		3	Pathways 2

**Total Credits** 16

### 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
BIOL 1105	Principles of Biology <sup>*</sup>	3	Restricted Elective

**Total Credits** 14

### SECOND YEAR

#### SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
BIOL 2804	Ecology <sup>*</sup>	3	Restricted Elective
FREC 2124	Forests, Society & Climate	3	Water Policy Specialization (Other) <sup>5</sup>
Pathways Concept 6 (Select from University Approved List) <sup>6</sup>		3	Pathways 6
Pathways Concept 7 (Select from University Approved List)		3	Pathways 7
Restricted Elective (Select from checksheet) <sup>5</sup>		3	Restricted Elective

**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 4374	Land Use & Environment: Planning & Policy	3	Water Policy Specialization (Water Planning, Policy, and Economics) <sup>5</sup>
UAP 3354	Introduction to Environmental Policy & Planning	3	Water Policy Specialization (Water Planning, Policy, and Economics) <sup>5</sup>
AAEC 3604	Agricultural Law	3	Water Policy Specialization (Water Planning, Policy, and Economics) <sup>5</sup>

**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
Pathways 5 Advanced Course (Select from University Approved List) <sup>7</sup>		3	Pathways 5a
Restricted Elective (Select from checksheet) <sup>5</sup>		3	Restricted Elective
Free Elective		3	Free Elective
Free Elective		1	Free Elective

**Total Credits 16**

### 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>
Pathways Concept 6 (Select from University Approved List) <sup>6</sup>		3	Pathways 6
Restricted Elective (Select from checksheet) <sup>5</sup>		3	Restricted Elective

**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>
FIW 4624	Marine Ecology	3	Water Science Specialization (Aquatic Ecosystems) <sup>5</sup>
ENSC/CSES 4316	Water Quality	3	Water Science Specialization (Other) <sup>5</sup>
Free Elective		3	Free Elective

**Total Credits 14**

**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> 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> 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:

BIOL 1105 is a prerequisite for BIOL 2804

AAEC 1005 is a prerequisite for AAEC 3324 and WATR/FREC 4464

BIOL 2804 is a prerequisite for BIOL 4004

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