

## Aquatic Ecosystems and Water Planning, Policy, and Economics

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 <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

| 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 <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

| 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 Electives |
| Total Credits  | 14      |                      |

### SECOND YEAR - SPRING SEMESTER

| Course   | Credits | Requirement         |
|--|---------|---------------------|
| BIOL 2804 Ecology *  | 3       | Restricted Elective |
| Restricted Elective (Select from checksheet)                     | 3       | Restricted Elective |
| Pathways Concept 6 Course (Select from University Approved List) | 3       | Pathways 6          |
| Pathways Concept 7 Course (Select from University Approved List) | 3       | Pathways 7          |
| 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   |
| UAP 3354 Introduction to Environmental Policy & Planning         | 3       | Water Policy Specialization (Water Planning, Policy, and Economics) <sup>5</sup> |
| FREC 4014 Natural Resources Economics                            | 3       | Water Policy Specialization (Water Planning, Policy, and Economics) <sup>5</sup> |
| Pathways Concept 6 Course (Select from University Approved List) | 3       | Pathways 6   |
| 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  |
| AAEC 3324 Environmental Law and Sustainable Development Economics | 3       | Water Policy Specialization (Water Planning, Policy, and Economics) <sup>5</sup> |
| Restricted Elective (Select from checksheet)                      | 3       | Restricted 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) <sup>5</sup>    |
| FREC 4374 Forested Wetlands                            | 3       | Water Science Specialization (Aquatic Ecosystems) <sup>5</sup>    |
| FREC 4354 Forest Soil and Watershed Management         | 3       | Pathways 5a and Water Science Specialization (Other) <sup>5</sup> |
| Free Elective  | 3       | Free Elective   |
| 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   |
| CEE 4344 Water Resources Planning                          | 3          | Water Policy Specialization (Water Planning, Policy, and Economics) <sup>5</sup> |
| FIW 4614 Fish Ecology                                      | 3          | Water Science Specialization (Aquatic Ecosystems) <sup>5</sup>                   |
| Free Elective  | 3          | Free Elective  |
| Free Elective  | 1          | Free Elective  |
| Total Credits  | 15         |  |
| <b>Total Degree Credits</b>                                | <b>121</b> |  |

<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

\* Classes noted with \* are prerequisites as follows:

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

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 4354 and FREC 4374