

Aquatic Ecosystems and Water Planning, Policy, and Economics

Created using checksheet for students graduating in calendar year 2022

Updated March 18, 2021

FIRST YEAR

FALL SEMESTER

| Class Number | Class Name | Hours | Requirement |
|---|--|-------|-------------|
| Pathways 1 Foundational Course (Select from University Approved List) | | 3 | Pathways 1f |
| CHEM 1035 | General Chemistry | 3 | Pathways 4 |
| CHEM 1045 | General Chemistry Lab | 1 | Major |
| MATH 1025 | Elementary Calculus ¹ | 3 | Pathways 5f |
| AAEC 1005 | Economics of Food & Fiber ^{2 *} | 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) | | 3 | Pathways 1f |
| BIOL 1106 | Principles of Biology | 3 | Pathways 4 |
| BIOL 1116 | Principles of Biology Lab | 1 | Major |
| MATH 1026 | Elementary Calculus ³ | 3 | Pathways 5f |
| AAEC 1006 | Economics of Food & Fiber ² | 3 | Pathways 3 |
| Pathways Concept 2 Course (Select from University Approved List) ⁴ | | 3 | Pathways 2 |

Total Credits 16

SECOND YEAR

FALL SEMESTER

| Class Number | Class Name | Hours | Requirement |
|---|--|-------|---------------------|
| Pathways Concept 2 Course (Select from University Approved List) ⁴ | | 3 | 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) ⁵ | 3 | Major |
| BIOL 1105 | Principles of Biology [*] | 3 | Restricted Elective |
| Pathways Concept 6 (Select from University Approved List) ⁶ | | 3 | Pathways 6 |

Total Credits 16

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 (Other) ⁵ |
| Pathways Concept 6 (Select from University Approved List) ⁶ | | 3 | Pathways 6 |
| Pathways Concept 7 (Select from University Approved List) | | 3 | Pathways 7 |
| Restricted Elective (Select from checksheet) ⁵ | | 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) ⁵ | 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) ⁵ |
| UAP 3354 | Introduction to Environmental Policy & Planning | 3 | Water Policy Specialization (Water Planning, Policy, and Economics) ⁵ |
| AAEC 3604 | Agricultural Law | 3 | Water Policy Specialization (Water Planning, Policy, and Economics) ⁵ |

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 |
| Pathways 5 Advanced Course (Select from University Approved List) ⁷ | | 3 | Pathways 5a |
| Restricted Elective (Select from checksheet) ⁵ | | 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) ⁵ |
| Restricted Elective (Select from checksheet) ⁵ | | 3 | Restricted Elective |

Total Credits 13

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

Total Credits 14

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

⁴ FREC 2254 or HIST 3144 are recommended Pathways 2 Courses for WRPM students

⁵ Students can choose from approved list on checksheet

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

⁷ 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