

Hydrology and Water, Climate, Energy, and Global Issues

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) | | | Pathways 1f |
| WATR 2004 | Water, Environment, and Society | 3 | Core |
| MATH 1225 | Calculus of a Single Variable ¹ | 4 | Pathways 5f |
| AAEC 1005 | Economics of Food & Fiber ² * | 3 | Pathways 3 |
| Pathways Concept 2 Course (Select from University Approved List) 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) | | | 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 ⁴ | 4 | Pathways 5f |
| AAEC 1006 | Economics of Food & Fiber ² | 3 | Pathways 3 |
| Pathways Concept 2 Course (Select from University Approved List) 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) ⁵ | 3 | Major |
| Pathways Concept 7 Course (Select from University Approved List) | | | Pathways 7 |

Total Credits 14

SECOND YEAR

SPRING SEMESTER

| Class Number | Class Name | Hours | Requirement |
|---|--|-------|--|
| PHYS 2206 | General Physics ** | 3 | Restricted Elective |
| GEOS 1004 | Earth Science: Our Past, Present, and Future * | 3 | Restricted Elective |
| FREC 2124 | Forests, Society, and Climate | 3 | Water Policy Specialization (Water, Climate, Energy, and Global Issues) ⁵ |
| Free Elective | | | Free Elective |
| Pathways Concept 6 Course (Select from University Approved List) ⁶ | | | 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) ⁵ | 3 | Pathways 1a |
| ENSC 3604 | Fundamentals of Environmental Science * | 3 | Core |
| CEE 3104 | Introduction to Environmental Engineering | 3 | Water Science Specialization (Other) ⁵ |
| UAP 4374 | Land Use & Environment: Planning & Policy | 3 | Water Policy Specialization (Other) ⁵ |
| Restricted Elective | | 3 | Restricted 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) ⁵ | 3 | Major |
| CSES/GEOG/GEOS 3304 | Geomorphology | 3 | Water Science Specialization (Hydrology) ⁵ |
| CSES/ENSC 3134 | Soils in the Landscape * | 3 | Restricted Elective |
| GEOG 3104 | Environmental Problems, Population, & Development | 3 | Water Policy Specialization (Water, Climate, Energy, and Global Issues) ⁵ |

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 ⁷ and Water Science Specialization (Other) ⁵ |
| Restricted Elective | | 3 | Restricted Elective |
| Free Elective | | 3 | Free Elective |

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) ⁵ |
| GEOG/GEOS 4134 | Interdisciplinary Issues and Ethics in Water Resources | 3 | Water Policy Specialization (Water, Climate, Energy, and Global Issues) ⁵ |
| Pathways Concept 6 Course (Select from University Approved List) ⁵ | | 3 | Pathways 6 |
| Free Elective | | 1 | Free Elective |
| Free Elective | | 3 | Free Elective |

Total Credits 15

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

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

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:

MATH 1226 is a prerequisite for GEOS 4804

GEOS 1004 is a prerequisite for GEOS 3304

AAEC 1005 is a prerequisite for WATR/FREC 4464

ENSC 3604 is a prerequisite for WATR/FREC 3754

CSES 3134 is a prerequisite for FREC 4354

** 6 credits of physics are a requirement for federal entry-level hydrology jobs.