

## Hydrology and Watershed Management

Created using 2019 checksheet guidelines

Updated March 15, 2018

### FIRST YEAR

#### FALL SEMESTER

Class Number	Class Name	Hours	Requirement
ENGL 1105	First Year Writing	3	CLE Area 1
MATH 1225	Calculus of a Single Variable	4	CLE Area 5 *
CHEM 1035	General Chemistry	3	CLE Area 4
CHEM 1045	General Chemistry Lab	1	CLE Area 4
CLE Area 2	CLE Area 2	3	CLE Area 2
CLE Area 6	CLE Area 6	1	CLE Area 6

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### FIRST YEAR

#### SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
ENGL 1106	First Year Writing	3	CLE Area 1
MATH 1226	Calculus of a Single Variable	4	CLE Area 5 *
BIOL 1106	Principles of Biology	3	CLE Area 4
BIOL 1116	Principles of Biology Lab	1	CLE Area 4
CHEM 1036	General Chemistry	3	Restricted Elective

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### SECOND YEAR

#### FALL SEMESTER

Class Number	Class Name	Hours	Requirement
GEOG/NR 2004	Intro to Water Resources and Environmental Issues	3	Core
AAEC 1005	Economics of the Food and Fiber System	3	CLE Area 3 *
PHYS 2205	General Physics	3	Core
PHYS 2215	General Physics Lab	1	Core
GEOG 2084	Principles of Geographic Information Systems	3	Core
CLE Area 7	CLE Area 7	3	CLE Area 7

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### SECOND YEAR

#### SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
AAEC 1006	Economics of the Food and Fiber System	3	CLE Area 3
PHYS 2206	General Physics	3	Restricted Elective **
FREC 2124	Forest, Society, and Climate	3	Water Policy Specialization (Other)
Restricted Elective	Restricted Elective	3	Restricted Elective
Free Elective	Free Elective	3	Free Elective

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### THIRD YEAR

#### FALL SEMESTER

Class Number	Class Name	Hours	Requirement
ENSC 3604	Fundamentals of Environmental Science	3	Core *
UAP 3354	Intro to Environmental Policy and Planning	3	Core
ENGL 3764	Technical Writing	3	Core
CSES/ENSC/GEOS 3114	Soils	3	Restricted Elective *
CSES/ENSC/GEOS 3124	Soils Lab	1	Restricted Elective *
UAP 4374	Land Use & Environment: Planning & Policy	3	Water Policy Specialization (Watershed Management)

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### THIRD YEAR

#### SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
FREC 3104	Principles of Watershed Hydrology	3	Core
AAEC 3314	Environmental Law	3	Core
CSES/ENSC 3614	Soil Physical & Hydrological Properties	3	Water Science Specialization (Hydrology)
Restricted Elective	Restricted Elective	3	Restricted Elective
Free Elective	Free Elective	3	Free Elective

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### FOURTH YEAR

#### FALL SEMESTER

Class Number	Class Name	Hours	Requirement
FREC 3754	Watersheds and Water Quality Monitoring	3	Core
FREC 4464	Water Resources Policy and Economics	3	Core
FREC 4354	Forest Soil and Watershed Management	3	Water Science Specialization (Hydrology)
FREC 4374	Forested Wetlands	3	Water Policy Specialization (Watershed Management) *
CEE 4264	Sustainable Land Development	3	Water Policy Specialization (Watershed Management)

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### FOURTH YEAR

#### SPRING SEMESTER

Class Number	Class Name	Hours	Requirement
ALS/NR 4614	Watershed Assessment, Management, and Policy	2	Core
GEOS 4804	Groundwater Hydrology	3	Water Science Specialization (Hydrology)
FREC 4784	Wetland Hydrology and Biogeochemistry	3	Water Science Specialization (Other) *
Restricted Elective	Restricted Elective	3	Restricted Elective
Free Elective	Free Elective	3	Free Elective
CLE Area 2	CLE Area 2	3	CLE Area 2

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Classes noted with \* are prerequisites as follows:

MATH 1225 is a prerequisite for MATH 1226

MATH 1226 is a prerequisite for GEOS 4804

CHEM 1036 is a prerequisite for CSES/ENSC/GEOS 3114

AAEC 1005 is a prerequisite for FREC/AAEC 4464

ENSC is a prerequisite for FREC 3754

CSES/ENSC/GEOS 3114 is a prerequisite for CSES/ENSC 3614, FREC 4354, and FREC 4374

CSES/ENSC/GEOS 3124 is a prerequisite for CSES/ENSC 3614

FREC 4784 has a corequisite requirement for FREC 4374

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