OCEAN AND ESTUARINE SCIENCE MINOR

Banner Code: OES

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This minor is designed for students interested in oceans and coastlines. The fundamental courses include topics in oceanography, physical oceanography, coastal morphology and process, marine geology, chemical oceanography, and marine ecology.

Admissions & Policies

Policies

Eight credits of coursework must be unique to the minor.

For policies governing all minors, see AP.5.3.4 Minors.

Requirements

Minor Requirements

Total credits: 18-22

Students should refer to the Admissions & Policies tab for specific policies related to this program.

Students must successfully complete 18-22 credits with a minimum GPA of 2.00.

Core Requirements

GEOL 309 Introduction to Oceanography 3
Select two from the following: 6-7
CLIM 412 Physical Oceanography
GEOL 363 Coastal Morphology and Processes or EVPP 363 Coastal Morphology and Processes
GEOL 364 Marine Geology
GEOL 458 Chemical Oceanography or CHEM 458 Chemical Oceanography
BIOL 449 Marine Ecology

Total Credits 9-10

Additional Courses

Select 9-12 credits from the following: 1

CLIM 101 Global Warming: Weather, Climate, and Society (Mason Core)
CLIM 412 Physical Oceanography
GEOL 304 Sedimentary Geology
GEOL 308 Igneous and Metamorphic Petrology
GEOL 312 Invertebrate Paleontology

GEOL 363 Coastal Morphology and Processes or EVPP 363 Coastal Morphology and Processes
GEOL 364 Marine Geology
GEOL 458 Chemical Oceanography or CHEM 458 Chemical Oceanography
BIOL 449 Marine Ecology
BIOL 450 Marine Conservation or EVPP 421 Marine Conservation
BIOL 454 Marine Mammal Biology and Conservation & BIOL 455 Marine Mammal Biology and Conservation Field Course or EVPP 419 & EVPP 420 Marine Mammal Biology and Conservation Field Course
BIOL 440 Field Biology (up to 4 credits of only marine or estuarine-oriented field courses)
EVPP 536 The Diversity of Fishes
EVPP 350 Freshwater Ecosystems
EVPP 419 & EVPP 420 Marine Mammal Biology and Conservation and Marine Mammal Biology and Conservation Field Course
EVPP 581 Estuarine and Coastal Ecology and Estuarine and Coastal Ecology Laboratory or EVPP 582 Estuarine and Coastal Ecology Laboratory
INTS 495 Field-Based Work (up to 4 credits of only marine or estuarine-oriented field courses)

Total Credits 9-12

1 Courses taken to satisfy the core requirements above cannot be repeated to count towards the additional courses requirement.

2 If chosen, students must take both lecture and lab for a total of 4 credits.

Notes

RECR 161 Scuba Diving: Basic is strongly recommended, but is not required.