Aquatic Biology, B.S. major
Aquatic Systems Emphasis

Required Credits: 74
Required GPA: 2.50

I REQUIRED BIOLOGY CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- BIOL1211
- BIOL1212
- BIOL2360
- BIOL2610

II REQUIRED AQUATIC BIOLOGY CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- BIOL 3361 Limnology (4 credits)
- BIOL 3362 Streams and Rivers (4 credits)
- BIOL 3830 Aquatic Plants and Algae (4 credits)
- BIOL 4200 Freshwater Invertebrates (4 credits)
- BIOL4534
- CHEM3150 or GEOL 3211 Environmental Hydrology (3 credits)
- or GEOL 3212 Hydrogeology (3 credits)
- GEOG 3231 Introduction to Geographic Information Systems (3 credits)

III CAPSTONE PROJECT

The Aquatic Biology capstone project, completed in the senior year, provides a culminating experience that integrates the knowledge and skills learned in previous courses and applies them to a scholarly activity. Examples of capstone projects may include original research projects or internships with state and federal agencies. The capstone project must be designed or chosen by the student in consultation with a faculty mentor or advisor, who must approve the project before work begins. Students should consult with their faculty mentor or advisor before their senior year commences. All capstone projects will include a written and oral component. Specific capstone requirements vary by field of emphasis. Refer to requirements as listed in specific emphases. CHOOSE ONE OF THE FOLLOWING THREE OPTIONS:

COMPLETE THE FOLLOWING COURSE:

- BIOL 4894 Advanced Research Project I (2 credits)

COMPLETE THE FOLLOWING COURSE:

- BIOL 4895 Advanced Research Project II (2 credits)

COMPLETE THE FOLLOWING COURSES:

- BIOL 4894 Advanced Research Project I (2 credits)
- BIOL 4895 Advanced Research Project II (2 credits)

AQUATIC SYSTEMS EMPHASIS

REQUIRED CORE COURSES

COMPLETE THE FOLLOWING COURSE:

- BIOL 3850

ELECTIVE CORE COURSES

SELECT A MINIMUM OF 9 CREDITS FROM THE FOLLOWING:

- BIOL 3310
- BIOL 3420 Human Dimensions of Wildlife and Fisheries Management (3 credits)
- BIOL 3610 Principles of Wildlife Management (3 credits)
- BIOL 3630 or GEOG 3630
- BIOL 3723
- BIOL 4620 Evolution (3 credits)
- GEOG 3232 Intermediate Geographic Information Systems (3 credits)

V REQUIRED COURSES IN RELATED FIELDS

COMPLETE THE FOLLOWING COURSES:

- CHEM 1111 or CHEM 2211 Principles of Chemistry I (4 credits)
- CHEM 1112 or CHEM 2212 Principles of Chemistry II (4 credits)
- STAT 2610 Applied Statistics (4 credits)
- or PSY 3401 Basic Statistics for Research (4 credits)

SELECT 1 OF THE FOLLOWING COURSES:

- PHYS 1101
- PHYS 2101

SUGGESTED SEMESTER SCHEDULE FOR AQUATIC BIOLOGY MAJOR, B.S., AQUATIC SYSTEMS EMPHASIS

The following is a list of required Aquatic Biology Major, B.S., Aquatic Systems Emphasis courses arranged by year. This schedule is intended to assist students in planning their courses. There is some flexibility in this schedule, but graduation within four years will require close adherence to the specified sequence of courses. Always consult your academic advisor in Aquatic Biology as to the proper courses and sequence of courses needed for graduation. Note: With proper student planning and in consultation with the Aquatic Biology academic advisor a student may complete his or her academic degree in 120 semester credits. It is possible, in some circumstances, that courses in a student's Liberal Education program may be used in his or her academic major.

Freshman

- BIOL 1211
- BIOL 1212

or CHEM 1111

- or CHEM 2211 Principles of Chemistry I (4 credits)
- or CHEM 2212 Principles of Chemistry II (4 credits)

- Liberal Education Requirements

Sophomore

- BIOL 2360
- BIOL 2610
- PHYS 1101
- or PHYS 2101

- or PSY 3401 Basic Statistics for Research (4 credits)
• Liberal Education Requirements

Junior
• BIOL 3361 Limnology (4 credits)
• BIOL 3362 Streams and Rivers (4 credits)
• BIOL 3830 Aquatic Plants and Algae (4 credits)
• CHEM 3150
  or GEOL 3211 Environmental Hydrology (3 credits)
  or GEOL 3212 Hydrogeology (3 credits)
• Elective courses in field of emphasis
• Complete Liberal Education Requirements

Senior
• BIOL 4200 Freshwater Invertebrates (4 credits)
• BIOL 4534
• GEOG 3231 Introduction to Geographic Information Systems (3 credits)
• Capstone Project
• Elective courses in field of emphasis