## AQUATIC AND COASTAL SCIENCES (AQUA)

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### AQUA 199 # - Freshman Seminar in Aquatic and Coastal Sciences
1 Credit

An experience for entering students that will help them to succeed as Coastal and Aquatic Sciences majors by learning study skills and becoming acquainted with the culture of higher education. Meets Gen Ed 2002 - New Student Seminar. 1 hour lecture.

### AQUA 351 # - Aquatic Biological Processes
4 Credits

Prerequisite(s): BIOL 113, CHEM 120, CHEM 121. Aquatic Biological Processes is a course that introduces students to the fundamental biological systems associated with marine and fresh water communities and serves as the foundation aquatic biological course for the BS/MS program in Aquatic and Coastal Sciences. 3 hours lecture, 3 hours lab.

### AQUA 490 # - Senior Seminar
3 Credits

Prerequisite(s): AQUA 351, AQUA 495, EAES 230, EAES 322. This seminar is a required course for the curriculum in the BS/MS Coastal and Aquatic Sciences program and fulfills the Graduation Writing Requirement. Students participate in active discussion regarding current research topics in the field and are required to present the result of their research activities or planned research for their Master’s Thesis. Meets the University Writing Requirement for majors in Aquatic and Coastal Sciences. 3 hours lecture.

### AQUA 495 # - Research in Aquatic and Coastal Sciences
4 Credits

Prerequisite(s): AQUA 351, EAES 230, EAES 322. This course is designed to provide students in the Aquatic and Coastal Sciences BS/MS program with a research-oriented internship utilizing one of the Montclair State University's off-campus research facilities including the School of Conservation, Passaic River Institute, or the Sandy Hook Marine Science Consortium facility.

### AQUA 515 # - Graduate Research Seminar
1 Credit

Prerequisite(s): AQUA 351, AQUA 490, EAES 230, EAES 322. This seminar is a required course for the graduate curriculum in the BS/MS Coastal and Aquatic Sciences program. Students participate in active discussion regarding current research topics in the field and are required to present their current research activities or planned research for their Master’s Thesis. 1 hour seminar.

### AQUA 551 # - Advanced Aquatic Biological Processes
3 Credits

Prerequisite(s): AQUA 351, EAES 230, EAES 322 or departmental approval. Advanced Aquatic Biological Processes is a graduate course which builds upon the fundamental biological systems associated with marine and fresh water communities and serves as the culminating core aquatic biological course for the BS/MS program in Aquatic and Coastal Sciences. 3 hours lecture.

### AQUA 599 # - Graduate Research in Aquatic and Coastal Sciences
4 Credits

Prerequisite(s): Program Director/Thesis advisor approval. A research experience in which students will conduct independent research approved by their graduate advisor leading to the collection of data for the completion of their Master’s Thesis. Students will be exposed to current aquatic and coastal techniques by working with scientific investigators in industry or within the department. Students will work on projects involving research techniques, data collection and the analysis and interpretation of the data.

### AQUA 698 # - Master’s Thesis
6 Credits

Prerequisite(s): Program Director/Thesis advisor approval. Independent research project done under faculty advisement. Students must follow the MSU Thesis Guidelines, which may be obtained from the Graduate School. Students should take AQUA 699 if they don’t complete AQUA 698 within the semester.

### AQUA 699 # - Master’s Thesis Extension
1 Credit

Prerequisite(s): Program Director/Thesis advisor approval. Continuation of Master’s Thesis Project. Thesis Extension will be graded as IP (in Progress) until thesis is completed, at which time a grade of Pass or Fail will be given.