

# 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 Marine Biology and Coastal Sciences majors by learning study skills and becoming acquainted with the culture of higher education.

**AQUA 490 Senior Seminar (3 credits)**

Prerequisite(s): BIOL 351, AQUA 495, EAES 230, EAES 322. This seminar is a required course for the curriculum in the BS/MS Marine Biology and Coastal Sciences program. 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 Graduation Writing Requirement for majors in Marine Biology and Coastal Sciences.

**AQUA 495 Research in Aquatic and Coastal Sciences (4 credits)**

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

**AQUA 515 Graduate Research Seminar (1 credit)**

Prerequisite(s): BIOL 351, AQUA 490, EAES 230, EAES 322. This seminar is a required course for the graduate curriculum in the BS/MS Marine Biology and Coastal 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.

**AQUA 551 Advanced Aquatic Biological Processes (3 credits)**

Prerequisite(s): BIOL 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 Marine Biology and Coastal Sciences program.

**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.