**Marine Sciences Concentration**

*Supporting Department: Marine Sciences (College of Liberal Arts & Sciences)*

**Concentration objectives:**
The objectives of this concentration are to provide students with the fundamentals of biological, chemical, geological and physical oceanographic processes. Through lectures, laboratories and at-sea studies the student will be lead to an understanding and appreciation of the multidisciplinary character of marine science, an interdisciplinary approach to problem formulation and problem solving, and the importance of the ocean in the modulation and enhancement of the earth's environment. The curriculum is designed to educate students in the problem solving tools of data analysis, critical thinking and communication of ideas as related to oceanographic science.

**NOTE:** Students interested in the Marine Sciences concentration should consider pursuing an Oceanography Minor. Typically completion of the minor will consist of three additional courses beyond the ENVS/Marine Sciences concentration requirements. Contact the concentration advisor, Dr. Julie Granger (Julie.granger@uconn.edu) for more information.

**Marine Sciences concentration required course work:**

Students are required to complete five courses (fifteen credits) from the following list, with at least one course from each group:

- **Group A:**
  - MARN 3014/EEB 3230: Marine Biology (Fall - Storrs, Spring alternate years, even - Avery Point)
  - MARN 3015: Molecular Approaches to Biological Oceanography (Fall alternate years, odd)
  - MARN 3016/MCB 3636: Marine Microbiology (Fall – Avery Point, Spring - Storrs)
  - MARN 3017: Plankton Ecology (Fall alternate years, even)
  - MARN 4010: Biological Oceanography (Spring)

- **Group B:**
  - MARN 3003Q: Environmental Reaction and Transport (Spring)
  - MARN 3030: Coastal Pollution and Bioremediation (Fall alternate years, odd)
  - MARN 4030W: Marine Biogeochemistry (Fall)
  - MARN 4050: Geological Oceanography (Spring)

- **Group C:**
  - MARN 3060: Coastal Circulation & Sediment Transport (Spring alternate years, even)
  - MARN 3061: Environmental Fluid Dynamics (Fall alternate years, odd)
  - MARN 4060: Descriptive Physical Oceanography (Fall)

**All courses are offered at the Avery Point Campus unless otherwise noted.**