

# BIOLOGY/MARINE SCIENCES (BIMS)

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**BIMS 220 - Introduction to Marine Biology 4 Credits**

Prerequisite(s): BIOL 213 or departmental approval. Special fee. A field and laboratory oriented course covering the characteristics of marine plants and animals. The course is designed to provide the student with experience in collecting and identifying local marine flora and fauna. 3 hours lecture, 3 hours lab.

**BIMS 431 - Marine Invertebrate Zoology 4 Credits**

Prerequisite(s): BIOL 213. A study of the invertebrates living in the marine realm with emphasis on the interrelations of these animals to their particular environment. Field work will include studies of the pelagic and benthonic forms associated with estuaries and the continental shelf. Also offered at the site of the New Jersey Marine Sciences Consortium. 3 hours lecture, 3 hours lab.

**BIMS 433 - Seashore Ornithology 2 Credits**

Prerequisite(s): BIOL 213. Field identification of birds of the ocean, salt marsh, sand dunes, and adjacent land areas. Includes discussion of habits and ecology. Offered at NJ Marine Sciences Consortium. 1 hour lecture, 3 hours lab.

**BIMS 490 - Field Methods in the Marine Sciences 4 Credits**

Prerequisite(s): BIOL 213. Special fee. The application and techniques of marine sampling, including those of biology, chemistry, geology, meteorology and physics. The nature and role of various pieces of sampling equipment. Field experience at the NJ Marine Sciences Consortium. 2 hours lecture, 4 hours lab.

**BIMS 564 - Benthic Ecology 4 Credits**

Special fee. Community structure, trophic dynamics, species diversity and distribution of bottom dwelling organisms in relationship to their environment; lectures, laboratory work and field investigations of the marine benthos. Also offered at NJ Marine Sciences Consortium. 1 hour lecture, 6 hours lab.

**BIMS 592 - Bacteriological Techniques in Marine Sampling 2 Credits**

Standard methods of bacteriological water analysis, including MPN and membrane filtration. Special problems related to sampling and analysis of marine sediments, surface and sub-surface marine waters. NJ Marine Sciences Consortium. Cross listed with Biology, BIOL 504. 6 hours lab.