CRUS-NC Course of Study
Spring 2016

Topics in Coastal North Carolina, UNCW BIO 485, 1 credit, Online
Course Description: This course is intended for CRUS-NC students and other students in the UNC System who are interested in current topics in coastal science in North Carolina. North Carolina has a long and diverse coastline, with economic impacts from fishing, tourism, ports, and other industries. Moreover, with low-lying coastal plains that are densely populated, hurricanes and sea-level rise pose significant risks to life and property that need to be understood. Students in this course will have the opportunity to hear from and interact with scientists and policy makers engaged in topics that impact North Carolina’s coastal zone and coastal communities.

The Atlantic Ocean and the Mid-Atlantic Coast, ECU GEOL 2500, 3 credits, Online
Course Description: This class will review the history and oceanography of the Atlantic Ocean and will examine the morphology of and processes affecting the mid-Atlantic region using North Carolina as an example. The focus will extend from the Paleozoic to present and from the Appalachian Mountains to the Mid-Atlantic Ridge. The terrestrial, estuarine and oceanographic processes causing coastal change and associated sedimentation and stratigraphy will be discussed.

The Atlantic Ocean and the Mid-Atlantic Coast Lab, ECU GEOL 2501, 1 credit, face to face for students at CSI
Course Description: The class will use nearby depositional environments as context for the study of the terrestrial, estuarine and oceanographic processes that cause coastal change. Associated sedimentation and stratigraphy will be discussed. This course will involve related field trips.

Applied Marine Technology, UNCW OCN 480, 3 credits, Online
Course Description: This course is intended for CRUS-NC students and other students in the UNC System who are interested in current topics in coastal science and applied marine technology. This on-line course will highlight instrumentation used to study oceanography, climate, weather, and marine biotechnology. Not only will students learn about the technology but they will be introduced to coastal issues which the technologies will help address, such as ocean acidification, storms, rip currents, and inundation.

Applied Marine Technology Lab, UNCW OCN 480, 1 credit, face to face for students at UNCW
Course Description: This class will provide hands on experience with technologies used to study the ocean environment, as well as technologies used to develop commercial products from marine resources. The class will focus on the NC coastal zone and coastal industries through related field trips.

Independent Research or Internship, course designation depend on the type of experience, up to 4 credits
Course Description: Directed study or experience with faculty supervision.

The Spring Break field excursion course be comprised of these two courses (additional fees may be required)

Field Methods in Oceanography, UNCW OCN 390, 2 credits.
Course Description: Introduction to methods and techniques used in geosciences, with emphasis on coastal and marine environments, including field measurement, sample retrieval, and data analysis. Colloquium and required field trips (with associated costs).

Oceanographic Cruise Techniques, UNCW OCN 471, 1 Credit
Course Description: Data collection and sampling techniques on a research vessel. Introduction to equipment methods and techniques used in oceanography such as CTD casts, bottom trawls, sediment grab sampling and sediment coring, via participation in two half-day cruises led by UNCW oceanography faculty members.