Overall goal of program is not to develop GIS technicians fully proficient in the use of GIS. Rather, aim of course is to introduce future Coast Guard decision-makers to theory & use of geospatial technologies for emergency planning & response, facilities management, & operational resource management & decision-making.

GIS Courses

• Introduction to Geospatial Sciences  
  - Elective course for all non-Marine Science Majors  
  - No lab portion to course. Course alternates between a “lecture” introducing a topic & hands-on in-class exercises  
  - First taught in Spring 2008

• Geospatial Sciences I  
  - Required course for all Marine Science Majors  
  - Lecture (3x/week) & Lab (1x/week)  
  - First taught in Spring 2003

• Geospatial Sciences II  
  - Elective course open to all Majors  
  - Lecture (3x/week) & Lab (1x/week)  
  - Students are expected to apply ALL GIS principles learned to completion of end-of-semester “capstone” GIS project for a “client.”  
  - First taught in Spring 2008

GIS Research Projects

• Optimal Routing of USCG Buoy Tender  
• Geostatistical Analysis of Communicable Diseases in New London County  
• Biological Survey and Mapping of Mitchell College Beach  
• Conversion of Sector Portland, OR, Geographic Response Plan to GIS format  
• Conversion of Sector New York’s Area Contingency Plan (ACP) Geographical Annex into GIS format  
• Conversion of Sector Long Island Sound’s Area Contingency Plan (ACP) Geographical Annex into GIS format  
• Geospatial Analyses of Maritime Drug Seizures  
• Maps of Congressional Districts for each USCG District  
• Geospatial Display of USCG Auxiliary and Citizen Action Network Volunteer Assets