MISSION AND GOALS OF THE MARINE ENVIRONMENTAL SCIENCE PROGRAM

Part I – MES Program Objectives

Upon completion of a Bachelor of program in Marine Environment Science the student will be able to:

- use the fundamental concepts and/or basic laboratory skills to understand and apply the disciplines that constitute the foundation upon which the Marine Environmental Science curriculum is built.
- integrate concepts and knowledge across disciplines and apply these concepts to interdisciplinary problems in environmental science.
- communicate, in both written and oral form, contemporary environmental concepts and issues.
- collect, analyze, interpret and evaluate scientific data.

Part II - MES Program’s Linkage to the Mission of Maritime College

The College’s mission statement was parsed into 7 components and the MES program was assessed in terms of how its’ learning goals supports that component of the mission statement.

Maritime College is a small, prestigious, specialized college of the State University of New York. Its mission is to provide

(a) A learning environment that stimulates intellectual growth, scholarship, and creativity.

- The classroom and laboratory facilities utilized by the faculty and students in the MES program have been recently updated to provide a stimulating environment for learning. New equipment has been purchased for the MES laboratory based courses. All classrooms are equipped with the necessary technology needed for power-point presentations of lectures and internet access. These latter two points support the scholarship and creative thinking of our students.
- Our learning goals support this component of the mission statement.

(b) An innovative, "hands-on" approach to instruction directed by a dedicated faculty composed of experts in their fields.

- The core faculty of the MES program all hold degrees from accredited institutions in their respective field of expertise; Professor de Angelis...
(Oceanography), Professor Manzi (Meteorology and Environmental Science), Professor Warkentine (Aquatic Biology and Ecology). The MES faculty maintain research programs and/or contacts with colleagues currently working in their respective field of expertise. Through these activities students are given unique “hands-on” experience through internships, research opportunities with MES faculty directly, and/or through course laboratory work that reflects the current trends and activities used in the fields emphasized in the MES program.

- Our learning goals support this component of the mission statement.

(c) Quality undergraduate and graduate programs in international business, engineering, science, and technology, with particular emphasis on the maritime industry,

- The MES program does not have a particular emphasis on the maritime industry, however the curriculum, with its emphasis on Marine Biology, Meteorology, and Oceanography, is extremely valuable to anyone working in the maritime industry. Students from our program have secured jobs as meteorologists, biologists, environmental scientists, and oceanographers within the maritime industry upon graduation, thus attesting to the quality of this undergraduate program.
- Our learning goals support, to some extent, this component of the mission statement.

(d) A structured community which emphasizes responsible citizenship and self-discipline and which maximizes opportunities for exercising leadership,

- This is not specific to the MES program
- Our learning goals do not directly support this component of the mission statement.

(e) The opportunity for its graduates to qualify for licensure as merchant marine officers and for commissioning in the United States Armed Forces,

- All students in the MES program have this option. It is up to them to select the MES program that is coupled with the licensure curriculum.
- Our learning goals do not directly support this component of the mission statement.

(f) Through its graduates, a quality workforce and prospective leaders for the state, nation, and maritime and international business community,

- MES graduates have successfully entered the workforce holding positions including chief meteorologist for the hurricane center and NOAA, fisheries biologists for an aquaculture facility, environmental scientists/engineers for consulting firms, environmental lawyers, and Navy oceanographers.
- Our learning goals support this component of the mission statement.
(g) A nationally and internationally recognized resource of expertise in its specialized disciplines as they relate to the maritime field.

- Our faculty, through their research, publications, and/or collaborations with colleagues in their respective fields, are recognized for their work by their peers both at the national and international level. However, this recognition is not specific to the maritime field. For our program this is not necessary.

- Our learning goals do not directly support this component of the mission statement.