Program Mission, Objectives, Outcomes, and Enrollment Numbers

(as of 8/14/2018)

Program Mission

The mission of the Materials Science and Engineering program at the University of Connecticut consists of four components:

- Prepare men and women for leadership careers in Materials Science and Engineering,
- Perform research that advances the frontiers of engineering and science,
- Provide a State and national center of materials expertise,
- Promote recognition, open communications and personal development among faculty, staff and students.

Program Objectives

Program Educational Objective 1:
Within three to five years after graduation, in their professional careers and/or graduate programs, our alumni/ae will have progressed in responsible professional positions and/or will have attained or will be successfully moving toward attaining post-graduate degrees.

Program Educational Objective 2:
Within three to five years after graduation, in their professional careers and/or graduate programs, our alumni/ae will have earned recognition for applying and continually expanding special, in-depth competencies in materials design, selection, characterization, and/or processing.

Program Educational Objective 3:
Within three to five years after graduation, in their professional careers and/or graduate programs, our alumni/ae will have earned recognition for applying and continually expanding professional skills of critical and cooperative thinking, communication, and leadership.

Program Educational Objective 4:
Within three to five years after graduation, in their professional careers and/or graduate programs, our alumni/ae will have become engaged with and contributing to professional societies and collaborating with the MSE Program Faculty in providing opportunities for current and potential MSE majors.
Program Educational Outcomes:

Our graduating students have:

(1) An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

(2) An ability to apply the engineering design process to produce solutions that meet specified needs with consideration for public health and safety, and global, cultural, social, environmental, economic, and other factors as appropriate to the discipline.

(3) An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

(4) An ability to communicate effectively with a range of audiences.

(5) An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

(6) An ability to recognize the ongoing need to acquire new knowledge, to choose appropriate learning strategies, and to apply this knowledge.

(7) An ability to function effectively as a member or leader of a team that establishes goals, plans tasks, meets deadlines, and creates a collaborative and inclusive environment.

Department of Materials Science and Engineering Enrollment Numbers
(as of Fall 2017)
Freshman: 8
Sophomore: 18
Juniors: 48
Seniors: 49
TOTAL: 123

Number of students who graduated in May 2018: 29