

Proposed MAE Program Educational Objectives

Mechanical Engineering

The primary educational objectives are:

1. To provide our students with a strong technical education that will enable them to have successful careers as mechanical engineers and members of other professions, and to pursue higher education.
2. To prepare our students for rapid technological change with the core knowledge central to assuring that they are able to develop further their knowledge and skills across a range of disciplines throughout their professional careers.
3. To prepare our students to communicate effectively and to deal knowledgeably and ethically with the impact of technology in our society and on global issues.

Aerospace Engineering

The primary educational objectives are:

1. To provide our students with a strong technical education that will enable them to have successful careers as aerospace engineers and members of other professions, and to pursue higher education.
2. To prepare our students for rapid technological change with the core knowledge central to assuring that they are able to develop further their knowledge and skills across a range of disciplines throughout their professional careers.
3. To prepare our students to communicate effectively and to deal knowledgeably and ethically with the impact of technology in our society and on global issues.

Chemical Engineering

The primary educational objectives are:

1. To provide chemical engineering students with a strong technical education and communication skills that will enable them to have successful careers in a wide range of industrial and professional environments and to prepare them for higher education.
2. To prepare chemical engineering students for rapidly changing technological environments with the core knowledge central to multidisciplinary development and personal improvement throughout their professional careers.
3. To instill in chemical engineering students with a strong sense of humanistic values and professionalism such that they can behave ethically and knowledgeably regarding technological impact in societal issues.

Environmental Engineering

The primary educational objectives are:

1. To provide our students with a strong technical education that will enable them to have successful careers as environmental engineers and members of other professions, and to pursue higher education.
2. To prepare our students for rapid technological change with the core knowledge central to assuring that they are able to develop further their knowledge and skills across a range of disciplines throughout their professional careers.
3. To prepare our students to communicate effectively and to deal knowledgeably and ethically with the impact of technology in our society and on global issues.