BS in Mechanical Engineering ABET Accreditation

The Bachelor of Science program in Mechanical Engineering at Syracuse University is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Enrollment and Graduation Data

Spring 2015 Enrollment 337 students
2014-15 Graduates 69 students

Program Educational Objectives:

The Program Educational Objectives of the Mechanical engineering curriculum are to enable graduates of the program to:

I. apply the physical, mathematical and engineering sciences to professional practice or to advanced study in mechanical engineering or related fields.
II. be cognizant of societal context and ethical responsibility in professional practice.
III. function productively on teams and communicate ideas to both technical and non-technical audiences.
IV. be innovative and adaptable in an increasingly diverse and global environment.

Student Outcomes:

(a) an ability to apply knowledge of mathematics, science, and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
(i) a recognition of the need for, and an ability to engage in life-long learning
(j) a knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
(l) a familiarity with statistics and linear algebra and the ability to apply advanced mathematics through multivariate calculus and differential equations