1) Students are knowledgeable in the applications of science, mathematics and engineering principles for solving technical problems.

2) Students will have the ability to develop experimental protocols and perform experiments designed to test or verify mechanical principles, components and properties and analyze test results.

3) Students are prepared to engage in the design of mechanical/thermal systems, components or processes to meet specified application goals.

4) Students are ready to participate in and contribute to multidisciplinary engineering projects.

5) Students are able to identify, analyze, and solve mechanical engineering problems.

6) Students will have a record of compliance with the academic integrity rules and are familiar with the professional responsibilities and the ethical canons vital to the practice of engineering.

7) Students are experienced in effective communication skills and have demonstrated their proficiency through technical report writing and oral presentations.

8) Students have received appropriate general education in humanities and social sciences in order to have developed an understanding of some of the environmental and societal consequences of technological developments and solutions.

9) Students are aware of the post-graduation needs for maintaining professional competency and the means for achieving through continuing education and graduate studies.

10) Students are familiar with the contemporary issues affecting the engineering profession.
11) Students will have working knowledge of modern tools and techniques critical to the practice of mechanical engineering.

12) Students will have productive participation in group projects as team members or in leadership roles.