

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Student Learning Outcomes for the B.S. in Mechanical Engineering

Students completing the B.S. major will be able to:

1. apply knowledge of mathematics, science, and engineering
2. design and conduct experiments, as well as analyze and interpret data
3. 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
4. function in multidisciplinary teams
5. identify, formulate, and solve engineering problems
6. understand professional and ethical responsibility
7. communicate effectively
8. understand the impact of engineering solutions in a global, economic, environmental, and societal context
9. recognize the need for, and an ability to engage in life-long learning
10. obtain knowledge of contemporary issue
11. use the techniques, skills, and modern engineering tools necessary for engineering practice

Program Website: <http://www.me.ucr.edu/>