



University of California, Santa Barbara
Program Learning Outcomes

B.S. in Mechanical Engineering

Upon graduation, students in the Mechanical Engineering B.S. degree program should:

- Possess a solid foundation in, and be able to apply the principles of, mathematics, science, and engineering to solve problems and have the ability to learn new skills relevant to his/her chosen career.
- Have the ability to conduct and analyze data from experiments in dynamics, fluid dynamics, thermal science and materials, and should have been exposed to experimental design in at least one of these areas.
- Have experienced the use of current software in problem solving and design.
- Demonstrate the ability to design useful products, systems, and processes.
- Be able to work effectively on multidisciplinary teams.
- Have an understanding of professional and ethical responsibilities.
- Be able to write lab reports and design reports and give effective oral presentations.
- Have the broad background in the humanities and the social sciences, which provides an awareness of contemporary issues and facilitates an understanding of the global and societal impact of engineering problems and solutions.
- Be a member of or participate in a professional society.