



Program Information

College:	Southern Poly. College of Eng. & Eng. Technology
Department:	Robotics and Mechatronics Engineering
Program:	Mechatronics Engineering, BS

Program Student Learning Outcomes

Students completing the mechatronics engineering program will be able to:

- Apply knowledge of mathematics, science, and engineering.
- Design and conduct experiments, as well as to analyze and interpret data.
- 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.
- Function on multidisciplinary teams.
- Identify, formulate, and solve engineering problems.
- Understand professional and ethical responsibility.
- Communicate effectively in written, oral, graphical, and mathematical formats appropriate to mechatronics engineering.
- Understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- Demonstrate recognition of the need for, and ability to engage in life-long learning.
- Demonstrate knowledge of contemporary issues.
- Demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.