BSME Program Outcomes (POs)

Program outcomes are statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the skills, knowledge, and behaviors that students acquire in their matriculation through the program. We have a continuing assessment process in place in order to collect and interpret data to evaluate the achievement of program outcomes. The thirteen program outcomes for the SDSU Mechanical Engineering program are listed in the table below.

• PO 1: The ability to apply knowledge of mathematics, science, and engineering.
• PO 2: The ability to design and conduct experiments, as well as to analyze and interpret data.
• PO 3: The ability to design a system, component, or process to meet desired needs.
• PO 4: The ability to function on multi-disciplinary teams.
• PO 5: The ability to identify, formulate, and solve engineering problems.
• PO 6: An understanding of professional and ethical responsibility.
• PO 7: The ability to communicate effectively.
• PO 8: The broad education necessary to understand the impact of engineering solutions in a global/societal context.
• PO 9: A recognition of the need for, and an ability to engage in life-long learning.
• PO 10: A knowledge of contemporary issues.
• PO 11: The ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
• PO 12: The ability to apply principles of engineering, basic science, and mathematics (including multivariate calculus and differential equations) to model, analyze, design, and realize physical systems, components or processes.
• PO 13: The ability to work professionally in thermal or mechanical systems areas.