

Engineering Design Division (EDD) Program Educational Objectives (PEO)

1st-year engineering students will demonstrate

1. solid skills in the fundamentals of engineering, math, and science that will enable them to be successful in their engineering careers;
2. solid skills in oral and written communication, teamwork, and research that will enable them to be successful in their engineering careers;
3. demonstrate broad knowledge of the engineering disciplines and their relations to the liberal arts that will enable them to be successful in their engineering careers.

Engineering Design Division (EDD) Student Outcomes (SO)

EDD-1	an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
EDD-2	an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
EDD-3	an ability to communicate effectively with a range of audiences
EDD-4	an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
EDD-5	an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
EDD-6	an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
EDD-7	an ability to acquire and apply new knowledge as needed, using appropriate learning strategies