Program Student Learning Outcomes

College:  Engineering  
Program:  Aerospace Engineering, BS

- An ability to function on multi-disciplinary teams
- An understanding of professional and ethical responsibility
- Students will gain a knowledge of contemporary issues
- Students will gain the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- An ability to apply knowledge of mathematics, science, and engineering
- An ability to design and conduct experiments, as well as to analyze and interpret data
- An ability to 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
- An ability to identify, formulate, and solve engineering problems
- An ability to use the techniques, skills, and modern engineering tools necessary for aerospace engineering practice
- In-depth knowledge of the major aeronautical topics and some knowledge of astronautical topics (AE)
- Competence in the integration of aerospace science and engineering topics in aerospace systems design (AE)
- A recognition of the need for, and an ability to engage in life-long learning
- An ability to communicate effectively