

B.S. in Aviation and Aerospace Safety

Program-Level Student Learning Outcomes

Students will:

- Develop and conduct safety risk assessments, analyze and interpret results, and use scientific judgment to make informed conclusions about safety improvements and hazard mitigation.
- Explain and communicate safety-related information and recommendations to diverse audiences, including industry professionals, regulatory bodies, and the general public.
- Formulate or design safety management systems, procedures, and programs that meet industry standards and regulatory requirements.
- Identify, analyze, and address complex safety challenges in aviation and aerospace by applying knowledge of safety principles, risk management, and relevant technical disciplines.
- Operate effectively within teams to set safety goals, plan and execute tasks, meet deadlines, and manage risks and uncertainties in safety related projects.
- Recognize and understand the ethical and professional responsibilities associated with safety, considering the global, economic, environmental, and societal impacts of safety solutions.