

B.S. in Uncrewed and Autonomous Systems

Program-Level Student Learning Outcomes

Students will:

- Exhibit professional and ethical responsibility, ensuring compliance with national and international laws, regulations, and management principles relevant to UAS and the aviation community.
- Communicate effectively using clear and properly formatted technical writing, verbal communication, and visual presentations, while making positive contributions in multidisciplinary and diverse team environments.
- Analyze data obtained through onboard sensors and other sources to create effective products, solve operational challenges, and support decision-making within the UAS industry.
- Apply mathematics, science, applied sciences, and contemporary issues to analyze, interpret, and solve problems within the uncrewed aircraft systems (UAS) and broader aviation industry.
- Apply operational knowledge to the design, development, and validation of UAS and autonomous systems, including evaluating configurations, performance criteria, and solutions tailored to task requirements in varying environments.
- Explain the value of lifelong learning to adapt to advancements and promote the commercial viability and sustainability of the UAS industry while building associated skills.
- Demonstrate the skills, techniques, and modern technologies required for the safe and effective operation of UAS, including mission planning, data collection, and responding to adverse or emergency situations.