INDUSTRIAL AND SYSTEMS ENGINEERING, BACHELOR OF SCIENCE (BS)/ADVANCED PILOTING (CCBC)

Program Learning Outcomes (SRU)

Upon graduation, students will have:

- An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics (SRU SLO 2, 3, 4)
- 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 (SRU SLO 2, 4, 6, 7, 8, 9, 10)
- An ability to communicate effectively with a range of audiences (SRU SLO 1, 3)
- 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 (SRU SLO 7, 8, 9, 10)
- 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 (SRU SLO 1, 5, 9)
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions (SRU SLO 2, 4)
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies. (SRU SLO 3, 5)

Program Learning Outcomes (CCBC)

This program trains students in the subject content the Federal Aviation Administration (FAA) determined is necessary for commercial pilots; and takes students from f irst flight through multi-engine and Certified Flight Instructor ratings.

Related Links

Industrial and Systems Engineering/Advanced Piloting, BS Program Page (https://www.sru.edu/academics/colleges-and-departments/ces/departments/engineering/programs/)

Professional Licensure/Certification Page (https://www.sru.edu/students/student-consumer-information/professional-licensures/)