

# INDUSTRIAL AND SYSTEMS ENGINEERING, BACHELOR OF SCIENCE (BS)

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## Program Learning Outcomes

### Student Outcomes

Upon graduation, students will have:

- An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- 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
- An ability to communicate effectively with a range of audiences
- 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
- 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
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## Related Links

Industrial and Systems Engineering, BS Program Page (<https://www.sru.edu/academics/majors-and-minors/industrial-and-systems-engineering/>)

Industrial and Systems Engineering Fact Sheet URL (<https://www.sru.edu/documents/programs/factsheets/undergraduate/industeng-fs.pdf>)

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