

# INDUSTRIAL ENGINEERING, B.S.

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## Overview

Industrial engineers create efficient systems that integrate people, resources, and information. Industrial engineering applications range from manufacturing to healthcare systems to business administration.

## Program GPA

Program GPA requirement policies are described in the College of Engineering and Computing section of this bulletin. For the purpose of these policies the Program GPA for the Industrial Engineering B.S. program is determined by all major course requirements used to satisfy the Industrial Engineering Major.

## Learning Outcomes

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