

Bachelor of Science in Industrial Engineering[†]

Department of Systems and Industrial Engineering

Program Outcomes

All graduates shall:

- have the ability to formulate a problem in technical terms including the relevant aspects from the mathematical, business, natural, social, and SIE engineering sciences.
- have the ability to determine and implement the appropriate modeling approach for problem solution.
- have the ability to account for stochastic behavior and perform sensitivity analysis.
- understand all components of manufacturing and service operations and their connection through the supply chain.
- have the ability to model and analyze systems having conflicting criteria and interacting decision variables.
- understand the impact of the solution on society and the environment.
- understand roles, advantages, disadvantages and dynamics of teams and have successful experience on team projects.
- be able to communicate effectively with team members and clients through both oral and written means.
- be able to develop customized solution software.
- know how to use high-level modeling and computation tools such as spreadsheet programs, equation solvers, CAD programs, and simulation software to analyze engineering problems.
- be able to deal with clients (including instructors) in a professional manner
- covering demeanor, presentation style and work ethic.

www.engineering.arizona.edu

[†]Accredited by the Engineering Accreditation Commission of ABET,
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- be able to understand different career options within the profession and preparation for lifelong learning.
 - be able to differentiate between ethical and unethical behavior.