

## Student Learning Outcomes:

- Outcome A: an ability to apply knowledge of mathematics, science and engineering.
- Outcome B: an ability to design and conduct experiments, as well as to analyze and interpret data.
- Outcome C: an ability to design and manage effective manufacturing systems, processes and environments for contemporary manufacturing enterprises.
- Outcome D: an ability to function productively on multicultural and multidisciplinary teams.
- Outcome E: an ability to identify, formulate, and solve manufacturing systems engineering problems.
- Outcome F: an ability to understand, practice, and nurture professional and ethical responsibilities.
- Outcome G: an ability to communicate effectively in both the written and spoken modes.
- Outcome H: the intellectual and educational breadth necessary for understanding the impact of manufacturing systems engineering solutions in a global and societal context.
- Outcome I: a recognition of the need for professional currency, and an ability to engage in perpetual learning.
- Outcome J: a knowledge of contemporary issues in society, as well as those of the profession.
- Outcome K: an ability to use the contemporary techniques, skills, and tools necessary for effective manufacturing systems engineering practice.
- Outcome L: an understanding of the behavior and properties of materials as they are altered and influenced by processing in manufacturing.
- Outcome M: an understanding of the design of products, and the equipment, tooling and environment necessary for their manufacture.
- Outcome N: an understanding of the creation of competitive advantage through effective management of contemporary manufacturing enterprises.
- Outcome O: an ability to apply advanced methods to the analysis, synthesis, and control of manufacturing systems.
- Outcome P: an ability to measure manufacturing process variables and draw credible technical inferences.