

Certificate in Manufacturing Systems

Online and On-Campus Options Available

The Manufacturing Systems Certificate is for students looking to acquire more knowledge in manufacturing. Students completing this certificate will explore the design, analysis, and operation of manufacturing systems as a combination of humans, machinery, equipment, tooling, controls, building, transportation, etc. that are bound by a common material and information flow through application-based courses in state-of-the-art labs and classroom environments.

12 hours total

Required Courses

Code	Title	Hours
INSY 6330	Six Sigma	3
INSY 6800	Lean Systems	3
Total Hours		6

Choose 2 of the following:

Code	Title	Hours
INSY 6240	Production and Inventory Control Systems	3
INSY 6450	Simulation-based Planning and Scheduling	3
INSY 6830	Vehicle Technology and Trends	3
INSY 6840	Control of the Manufacturing Floor and Processes	3
INSY 6850	Electronics Manufacturing Systems	3
INSY 6860	Innovations in Manufacturing Systems	3
INSY 7400	Applied Discrete-event Simulation Modeling	3
INSY 7940	Industrial and Systems Engineering Problems	1-5
INSY 7970	Industrial and Systems Engineering Special Topics	1-5
INSY 8970	Industrial and Systems Engineering Special Topics	1-5

Special Topics/Problems courses require Department Approval and only will count as credit towards the certificate based on the topic of the course. Students cannot take 5xxx and the corresponding 6xxx course and receive credit for both.

Lean Six Sigma Green Belt Certification

GR students who complete INSY 6800 and INSY 6330 with a B average receive the certification.