

MASTERS OF SCIENCE SYSTEMS ENGINEERING

Admission requirements

- > A bachelor's degree in engineering, computer science, mathematics, physics, or a related area as determined by the Director of Graduate Studies, with a minimum 3.0 (on a 4.0 scale) grade point average (GPA) in all coursework attempted while registered as an upper-division undergraduate student working towards a bachelor's degree; or a graduate degree in engineering, computer science, mathematics, physics, or a related area as determined by the Director of Graduate Studies;
- > Good academic standing in the last institution last attended;
- > A minimum graduate record examination (GRE) score of at least 151 in the Quantitative section and at least 146 in the Verbal Reasoning section; (GRE waiver application available with at least 3 years experience in an engineering discipline and required GPA); For international applicants, TOEFL score at least 80 or IELTS score at least 6.5;
- > Three letters of recommendation obtained from academics or professionals who can comment on the academic and research potential of the applicant;
- > Statement of purpose describing reasons for pursuing a Master of Science degree and a career in Industrial and Manufacturing Engineering.

Required core courses

- > Fundamentals of Systems Engineering
- > Cost Estimating for Engineering Economic Analysis
- > Requirements Analysis and Knowledge Management
- > Engineering Risk Analysis and Decision-Making with Uncertainty
- > Systems Test and Evaluation
- > Design Considerations for Systems Engineering
- > Model-Based Systems Engineering and Simulation

Three technical electives required in areas such as:

- > Advanced model-based systems engineering
- > Simulation, human factors, human systems integration
- > Data analytics, operations research and optimization
- > Autonomous systems
- > Maritime systems
- > Aerospace systems
- > Electrical and power systems
- > Transportation systems
- > Engineering management, project management

Graduation requirements

- > Complete all core courses and elective courses
- > Maintain an overall GPA above 3.0

\$90K

Average salary for systems engineers

Apply any semester

1-2 years
choose your pace

**On-campus or
Online program**

CONTACT

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