M.S. in Industrial Engineering and Management

Program Director

Ozgur Aktunc, Ph.D. (oaktunc@stmarytx.edu)

The Master of Science in Industrial Engineering and Management is an interdisciplinary graduate program that emphasizes the areas of industrial engineering, management, and systems engineering.

Industrial Engineering and Management students learn the techniques to reduce cost and improve efficiency. They also learn the skills to become good engineering managers who can use powerful analytic metrics and methods to solve complex problems. They combine their management expertise with engineering knowledge, enabling them to lead teams of specialists in highly technical tasks.

Admission Requirements

The admission requirements of the program are the following:

- Have a Bachelor of Science (B.S.) degree in engineering, physical science, mathematics, or a closely related discipline. The Graduate Program Director will evaluate applicants from other disciplines on an individual basis.
- Have a minimum Grade Point Average (GPA) of 3.00 (A = 4.00) for their bachelor's degree.
- All students are required to submit proof of English proficiency for admission into St. Mary's University. If you have studied in the US, this may fulfill the English proficiency requirement. Proof of English proficiency can be submitted directly to St. Mary's from one of the following ways:
- Test of English as a Foreign Language (TOEFL). A minimum score of 80 on the Internet-based (IB) test is required for full admission.
- International English Language Testing System (IELTS). A minimum band score of 6.0 is required for full admission.
- Duolingo English Test (DET): A minimum score of 105 is required for full admission.
- Submit a completed application form, a written statement of purpose indicating the applicant's interests and objectives, two recommendation letters, official transcripts of all college level work and resume.
- Applicants who fail to meet any of the above requirements may be admitted on a conditional status. The Graduate Program Director will evaluate
 these cases on an individual basis.

Click on the course number to view course title and description.

MS IEM is a 30-credit hour program. The graduate degree may be earned by one of three plans:

Code	Title	Semester
		Hours
Plan I - Capstone		
In Major		21
Out of Major (Other EG, CS, GS	SB, Law and CAHSS selected with program director's permission)	6
Project/Thesis		3
Total Semester Hours		30
Code	Title	Semester Hours
Plan II - Thesis		
In Major		18
Out of Major (Other EG, CS, GS	SB, Law and CAHSS selected with program director's permission)	6
Project/Thesis		6
Total Semester Hours		30
Code	Title	Semester Hours
Plan III - All course		
In Major		24
Out of Major (Other EG, CS, GSB, Law and CAHSS selected with program director's permission)		6
Project/Thesis		0
Total Semester Hours		30

Students can elect to choose from Capstone project, thesis, and all course options. Students can take up to 6 credits from out of major areas with advisor permission.

MS in Industrial Engineering and Management (IEM) curriculum

Students in the MS IEM graduate program will take ten 3-credit courses (in a total of 30 credits) among the following courses: Operations Research EG 6308 Random Variables and Stochastic Processes EG 6310 Nonlinear Optimization EG 6332 Operations Research EG 6333 Operations Research EG 6333 Operations Research EG 6330 Lean Production EG 7306 Total Quality Systems EG 6300 Lean Production EG XXXX APICS Logistics EG XXXX APICS Supply Chain Finance Management EG XXXX APICS Supply Chain Finance Management EG 7353 Project Management Leadership and Ethics EG XXXX Aglic System Development EG XXXX Aglic System Development EG XXXX Strategy Management EG XXXX Enterpreneurship and Innovation EG XXXX Enterpreneurship and Innovation EG 6300 Statistical Data Analysis EG 6301 Statistical Data Analysis EG 6303 Replanding and Scheduling EG 6309 Human Factors/Ergonomics EG 6301 Sequencing and Scheduling EG 6303 Sequencing and Scheduling EG 6303 Sequencing and Scheduling EG 6303 Safety Engineering Concepts EG 7307 Plant Layout and Facilities Design EG 7307 Plant Layout and Facilities Design EG 7307 Seguencing Concepts EG 8396 Capstone Project Option EG 8390 Thesis I EG 8391 Thesis II Students can elect to take up to two courses outside of their majors (other EG, CS, GSB, Law courses selected with the advisor permission).	Code	Title	Semester Hours
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