

MASTER OF SCIENCE IN ENGINEERING IN ENGINEERING MANAGEMENT

Graduate Program Director

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Option Description

YSU is pleased to offer its online Master of Science in Engineering degree program with management option in a convenient, fully online format to students across the U.S. and around the world. Demand is increasing for technical professionals with strong managerial capabilities. Managing human resources, research and development projects, resources, systems and technology requires management skills and insight. The online Master in Engineering Management program at YSU is designed for engineering professionals who need to acquire and develop those management capabilities while maintaining their expertise in their technical specialties.

The online Engineering Master's degree curriculum combines engineering and business courses to develop a well-rounded engineer prepared to manage a technical organization. The program draws on the faculty and resources from the College of Science, Technology, Engineering and Mathematics and the Williamson College of Business Administration at YSU.

If you are a professional who currently holds a technical managerial role and would like to improve your skills, or if you are a professional who is planning on moving into an engineering technical management role, then this online Master in Engineering degree program is for you.

Admission Requirements

Applicants must meet all of the general requirements for admission to the College of Graduate Studies. Admission to the program is selective and based on the qualifications of the applicant, the needs of the program, and the availability of funding. Applicants with lesser qualifications may be granted provisional graduate student status based on evaluation of their undergraduate records, standardized test (e.g. GRE) results, work experience, and other professional qualifications.

Program Requirements

The online Master of Science in Engineering, Management (MEM) is a two-year program. The program typically starts in the Fall semester. The program requires completion of 30 credit hours. Students can take either 6 ISEN courses and 4 OMBA courses, or 7 ISEN courses and 3 OMBA courses to fulfill the 30 credit hours.

Select 3 or 4 of the following OMBA courses:		12-9
OMBA 6921	Industrial Economics	
OMBA 6922	Cost Based Decision Making	
OMBA 6923	Corporate Financial Management	
OMBA 6941	Managing Organizational Talent	
OMBA 6955	Marketing Strategy	
Total Semester Hours		30

Learning Outcomes

- Demonstrate quantitative analytical and critical thinking skills and techniques to manage projects and processes (products and services).
- Examine a multidisciplinary approach involving the integration of engineering, management, quality and risk analysis in projects, and processes.
- Identify, prioritize and select relevant solutions in solving complex engineering problems and processes.
- Assess tools and techniques, resources, organizational systems, and decision-making processes for the successful management of projects.
- Apply global mindset and a detailed knowledge of business environments in engineering management solutions.
- Demonstrate organizational and team skills needed to manage projects and processes.

COURSE	TITLE	S.H.
Minimum 6 ISEN courses		
ISEN 5881	Competitive Manufacturing Management	3
ISEN 6906	Supply Chain Engineering	3
ISEN 6920	Project Management	3
ISEN 6921	Engineering Statistics	3
ISEN 6935	Decision Analysis for Engineering	3
3 or 6 credits of ISEN Elective(s)		3-6