

Engineering Management

Master of Science in Engineering

The Engineering Management program is offered by the Cockrell School of Engineering and administered by Texas Engineering Executive Education. The mission of the program is to contribute significantly to engineers' managerial leadership abilities within their technological organizations by allowing students an opportunity to pursue higher education that is innovative and intellectually inspiring. The program fulfills this mission by offering courses that teach engineers how to lead and how to manage projects, processes, personnel, products, and services in real-world situations.

For More Information

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URL: <https://executive.engr.utexas.edu/academic-programs/degrees/engr-manage>

Objectives

The core objective of the engineering management program is to provide engineers who have chosen to pursue leadership and management career paths with the tools and education that will most directly support their success. The goal of the degree program is to provide engineering professionals with a solid foundation to help them continue lifelong learning while employed in industry. Additional objectives include teaching students about managing technical, business, and human performance processes in order to achieve corporate goals; to develop and learn core business fundamentals in areas including economics, negotiations, analytics, operations management, marketing, and decision analysis and risk assessment; and to provide an understanding of marketing risks associated with new products, financing a new venture, and legal issues associated with a new project or product. The MSE in Engineering Management program provides challenging, innovative, and intellectually inspiring curriculum to meet the needs of working professionals and technology organizations of all types. Courses meet once a month on Friday and Saturday.

All courses have been built to align with the American Society for Engineering Management Body of Knowledge. In addition, all courses align with the University's policies governing non-formula-funded (Option III) degree programs. In the required courses, listed in the [Degree Requirements](#) section, students are expected to develop their perspectives on leadership and management of technology in industry and to gain insight into other management issues critical to leading or managing a technological organization.

The curriculum is designed to help students become better engineering leaders who can manage personnel, projects, processes, products, and services. The program's special scheduling option allows working professionals to earn an advanced degree while maintaining their career.

Areas of Study

The interdisciplinary engineering management faculty includes members of several departments of the Cockrell School of Engineering and the McCombs School of Business. The current research of this faculty includes such topics as finance and accounting for engineering manager; strategic decision and risk analysis; marketing and negotiation; management of people and organizations; and legal issues and technology management, such as product liability and patent law.

Graduate Studies Committee

The following faculty members served on the Graduate Studies Committee (GSC) in the spring 2024 semester.

Caroline A Bartel

John A Daly

J Eric Bickel

John J Hasenbein

Richard H Crawford

Admission Requirements

This two-year program provides graduate education for the working professional who is employed in or planning to move into the field of engineering management. Classes meet all day one Friday and Saturday a month, with an orientation session at the beginning of the program. The program requires a serious commitment on the part of the student and the student's employer. The coursework is rigorous and demanding and can provide an excellent educational experience.

It is preferred that applicants have at least 18 months of professional industry-related experience, an upper-division GPA of a 3.0, and a bachelor of science in engineering, engineering technology, or related technical field.