UC Irvine’s MSEM program offers the following benefits:

- Gain cutting-edge engineering skills and experience-proven, real-world business practices
- Lead cross-functional teams and successfully bring innovative projects to market
- Experience an intensive four-day management and leadership course with MBA students
- Work with a team and consult with a biotechnology company to solve a real management problem
- Obtain career planning information and practical skills for long-term career success

Irvine is strategically located in the heart of Orange County, the second largest county in the state. It is also at the center of Southern California’s Tech Coast, with Irvine being the primary breeding ground for on-the-rise businesses and innovations in medical biotechnology, medical devices, real estate, finance and auto design. Innovative companies, such as Allergan, Abbott Medical Optics, Boeing, Kingston Technologies, IBM, Sanyo, Toyota, and Verizon Wireless, are all just minutes away from UC Irvine.

The University of California, Irvine

Founded in 1965, the University of California, Irvine combines the strengths of a major research university with the bounty of an incomparable Southern California location. UC Irvine is unyielding commitment to rigorous academics, cutting-edge research, and leadership development makes the campus a driving force for innovation and discovery that serves our local, national, and global communities in many ways.

The Paul Merage School of Business at UC Irvine consistently ranks among the top 10% of business schools in the world. Our pioneering curriculum and dynamic network attract business leaders, the best and brightest students, and the global companies that recruit them. Our reputation includes accolades from BusinessWeek, U.S. News & World Report, and the Financial Times.

The Henry Samueli School of Engineering at UC Irvine is becoming a powerhouse for innovative engineering education and the development of tomorrow’s advanced technologies. Working in partnership with state and federal agencies and industry, the School promotes the transfer of research to applications that benefit society. The School’s faculty members are leaders in their disciplines and have achieved worldwide honors and recognition for their pioneering research and dedicated teaching. The School, and many of its engineering disciplines, are ranked among the top 50 in the nation in U.S. News & World Report’s graduate program annual rankings.

“UC Irvine’s MSEM program is an excellent blend of the best of the engineering and business curriculums to help develop top-quality engineering managers. Our managers rise from the engineering population and would benefit from this kind of program. Since we support graduate degree programs for our employees in both engineering and business administration, this program is of high value to Northrop Grumman.”

Dwight C. Streit, PhD, Vice President, Electronic and Sensors, Northrop Grumman Aerospace Systems
Engineers know.
One degree can change everything.

Engineers know. One degree can change everything. With a dynamic skill set, you will be able to lead cross-functional teams and engineering-based companies and organizations. Empowered with that engineers need for leadership roles in technology, science, government, cutting-edge engineering skills and proven, real-world business practices, educational institutions work together; these schools provide the foundation is sufficiently covered in the following courses:

**Program Structure**

The MSEM program requires a minimum of 37 courses beyond the bachelor’s degree. Students complete a two-week orientation and an intensive course in engineering project management prior to the fall quarter, which promotes fundamental concepts of management to initiate students into the concrete challenges that managers in high performing organizations typically confront.

Courses in engineering are offered through the Henry Samueli School of Engineering and courses in business from the Paul Merage School of Business.

Students will emerge as innovators by taking on the role of business and engineering project managers tasked with solving complex engineering product development challenges through consulting projects, business plans, and exposure to current issues within the engineering sector. Through this process, quantitative and qualitative skills along with business communication skills will be developed.

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Coursework

Due to the interdisciplinary nature of this degree, it is important to establish a common foundation in engineering management for students from various backgrounds. This foundation is sufficiently covered in the following courses:

- MBA201: Business and Management in the 21st Century
- MBA211: MBA Proseminar
- MBA312: Experimental Learning or MBA313: Launching Technology Ventures
- ENGR280: Engineering for Scientists and Engineers
- ENGR298: Engineering Department Seminar
- Specialization (i.e., BME298, EECS295, CBEMS298, ECE270P, or MAE298)

In addition to the core courses, at least five additional courses from the Henry Samueli School of Engineering.

Three MBA core courses from the following:

- Statistics for Management
- Organizational Behavior for Management
- Financial Reporting for Management
- Microeconomics for Management
- Information Technology for Management
- Operations Management
- Managerial Finance
- Strategic Management

Three engineering courses are required from a chosen primary specialization in Engineering:

- Biomedical Engineering
- Chemical & Biocatalytic Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Materials Science & Engineering
- Mechanical and Aerospace Engineering

Four elective courses are also required – two from the business school and two from the engineering school.

Admissions Requirements

Applicants may apply online and must hold a BS degree in engineering or an allied field as well as meet all other prerequisite requirements at the time of matriculation to complete the program. Those admitted without the prerequisite scholarship record must pass a series of prerequisite tests as determined by the MSEM program. To be considered for the prerequisite scholarship record, international applicants must demonstrate proficiency in English beyond the bachelors degree. Students must have completed at least six semesters of undergraduate study. Applicants without the prerequisite scholarship record may, in some cases, demonstrate equivalent experience through industry work experience, internships, or other preparatory courses.

Applicants will be evaluated on their prior academic record and their potential for management and leadership as demonstrated in submitted application materials, including:

- Application
- Official transcripts from all institutions attended to obtain degree(s) (with English translation if needed)
- Official Graduate Record Examination (GRE) score
- A video interview (by invitation only)
- A personal interview (by invitation only)

Deadlines and additional application information are available at engineering.uci.edu/msengmgmt.

Learn more at engineering.uci.edu/msengmgmt.

Career Concepts Course

This course provides students with information and practical skills for success in the career planning and job search process. Workshop topics include:

- Job Search Strategies
- Resume Writing
- Interviewing
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