Master of Science in Systems Engineering and Management

Curriculum
Systems engineering and management, or SEM, is an essential ingredient in today’s high-tech industries. Our industry partners tell us there is a growing need for engineering and management training in complex systems that have many interdependent parts and deliver significant organizational and/or societal impact. Increasingly, business requires that engineers be trained to be good managers and leaders. Likewise, business managers need a better understanding of technology and how to run large, multifaceted engineering projects.

Target industries for the program include aerospace, defense and space systems, transportation systems, information and communications technology systems, information assurance and cybersecurity systems, healthcare systems; energy, environment and infrastructure systems; complex biological systems; and macroeconomic and financial systems.

As a joint program between the Erik Jonsson School of Engineering and Computer Science and the Naveen Jindal School of Management, SEM features both technical and business or organizational-centered courses. The curriculum provides students knowledge and skills to design, develop and manage complex projects requiring wide-ranging scientific and business competencies. The typical SEM student is a high performer with a bachelor’s degree in engineering, math, physics, chemistry, economics or finance.

The program offers flexibility in its concentrations — specialty subject areas — and in its format. Students can choose between a master’s degree earned the traditional way, during regular weekday classes or one earned in an executive format, during classes on Fridays and Saturdays (please consult with the online information available at utdallas.edu/sem for differences in application and admission between the traditional and executive tracks). A certificate in systems engineering or in systems management is yet another option for those seeking advanced training.

Career Options
Graduates of the program seek positions such as Manager/Director of Systems Engineering and Management.

Degree Program
The MS in Systems Engineering and Management requires the completion of a minimum of 36 semester credit hours.

For complete admission and degree requirements, view the Graduate Catalog at catalog.utdallas.edu.

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