Erik Jonsson School of Engineering and Computer Science
Master of Science in Systems Engineering and Management

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. This degree consists of a curriculum that is one-third engineering, one-third management, and one-third your choice in a targeted area related to systems including 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 organization-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.

A certificate in systems engineering or in systems management is another option for those seeking advanced training.

Program Description
The MS in Systems Engineering and Management requires the completion of a minimum of 36 credit semester hours. The program offers flexibility in its format. Students can choose between a master’s degree earned in the traditional way, during regular weekday classes or one earned in a professional format, with classes on Fridays and Saturdays. The typical SEM student is a high performer with a bachelor’s degree in engineering, math, physics, chemistry, economics or finance. Learn more at utdallas.edu/sem.

Career Opportunities
Graduates with an MS degree in Systems Engineering and Management find positions as systems engineers, systems managers/engineering managers, program/project managers, directors of systems engineering, data systems analysts and more in a wide range of industries.

 Marketable Skills
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 organization centered courses. Upon successful completion of the MS in Systems Engineering and Management, graduates will be able to take on roles with the following skills:

• Ability to design, develop and manage complex projects requiring a wide range scientific and business competencies
• Ability to explain technical terms to non-technical people in the business world and apply knowledge/skills to real world scenarios
• Ability to communicate effectively
• Ability to use empirical and quantitative skills, critical thinking, analytical reasoning and problem solving

Contact Information
Traditional Track
(Less than 3 years work experience)

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