Master of Science in Systems Engineering and Management

Curriculum
Systems engineering and management (SEM) is an essential ingredient in today’s high-tech industries. There is a growing need for engineering and management training in complex systems that have many interdependent parts and 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.

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 human-centered courses. The curriculum provides knowledge and skills to design, develop and manage complex projects requiring wide-ranging scientific and business competencies.

The program offers flexibility in its concentrations 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. 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; Chief Technology Officer (CTO); Chief Strategy Officer; Chief Information Officer (CIO); Chief Security Officer; Vice President of Research and Development; Vice President of Systems Engineering; Vice President of Engineering; Director of Systems Engineering; Manager of Systems Engineering; Systems Program Manager and Systems Project Manager.

Degree Program
The MS in Systems Engineering and Management requires the completion of a minimum of 36 semester credit hours. The traditional degree offers an option for 30 hours of semester credit plus a thesis.

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