

Master of Science Systems Engineering

U N I Q U E B Y D E S I G N



THE SMU ENGINEERING DIFFERENCE.

The Bobby B. Lyle School of Engineering is a selective, premier center of learning for aspiring professionals who want the knowledge, skills, and tools to become systems engineers, technical managers, or just better engineers. Centered in Dallas, one of the country's most vibrant cities, SMU Lyle has long been recognized for providing workplace relevant education and research to the nation's aerospace and defense community (A&D), both industry and government, through its unparalleled Systems Engineering Program (SEP).

Founded in 1994 under the leadership of Dr. Jerrell Stracener, SMU's SEP has evolved with active participation and guidance from volunteer Subject Matter Experts (SME) affiliated with Lockheed Martin, Raytheon, Vought, Bell Helicopter, L-3 Communications, Northrop Grumman, Boeing, Rockwell Collins, NASA, FAA, U.S. Defense Acquisition University (DAU), U.S. DoD, Air Force, Army, and Navy.

WHY THE ENGINEERING LEADERS MASTERS SERIES?

In response to industry and government needs, SMU's SEP weekend format programs are built around small class sizes, highly knowledgeable instructors, team projects, and advanced education that produces technical leaders who can – from a systems perspective – engineer optimal solutions to complex problems.

SMU's Master of Science, Systems Engineering degree is for high-potential professionals with an undergraduate technical degree who are advancing in industry or government or running their own company.

Designed to develop expertise for development and management of systems (products and services) to satisfy customer requirements, this 30-hour Systems Engineering Program offering considers engineering, technology, environmental, management, risk, and economic factors by viewing the system as a whole, over its life cycle using systems engineering principles, methods, and practices.

Throughout the program of study, "systems thinking" skills are developed, fostering more effective practice for engineers and engineering managers. The objective is to provide individuals with the capability to 1) effectively manage the development of complex systems in an ever-changing global economy, 2) to apply these skills within the business environment to exceed customer requirements, and 3) to better understand the impact of their engineering decisions and the impact of other decisions upon them.

At SMU, we're engineering leaders ... shaping tomorrow.
Enrollment is limited. Apply today.

WEEKEND FORMAT PROGRAM

Systems Engineering

Year 1

- Class 1 Systems Analysis Methods
- Class 2 Systems Engineering Process
- Class 3 Integrated Risk Management
- Class 4 Systems Reliability, Supportability, and Availability Analysis
- Class 5 Systems Integration and Test

Year 2*

- Class 6 Systems Engineering Design
- Class 7 Software Systems Engineering
- Class 8 Systems Engineering Leadership
- Class 9 Logistics Systems Engineering
- Class 10 Systems Engineering Tools (SLATE, DOORS, Matlab)

*Electives offered in Year 2 are subject to change.

For more information, please email
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call 214-768-2002, or visit lyle.smu.edu.