Online Graduate Certificate in Systems Engineering

Are you ready to learn how to define, develop and test complex systems in today’s world? UTEP’s online Graduate Certificate in Systems Engineering is designed for working professionals and students who want to understand key concepts in the development of complex systems.

The 15-semester credit hour certificate allows aspiring systems engineers who are limited by time constraints the opportunity to acquire core knowledge in the key areas of systems engineering. The certificate culminates in an industry project practicum which gives students hands-on experience. It is also a great option for students who are getting a different degree but simultaneously want to pursue systems engineering as a secondary interest. Finally, the certificate can also provide a path to a master’s degree; credits earned may be transitioned into a master’s degree program in systems engineering.

Applicants are generally expected to have a Bachelor of Science degree in engineering, computing, physical sciences or the like.

Connect with Your Full Potential
With a graduate certificate in systems engineering, you can
• Become a part of a growing industry that needs more and more engineers with interdisciplinary and systems-based training
• Stay adaptable and responsive to changes brought about by advances in technology
• Develop and manage complex systems in a systematic way
• Gain exposure to industry and work on “real” jobs for customers during the project practicum
• Apply the graduate certificate to a master’s degree in systems engineering
• Apply the Capability Maturity Model Integration (CMMI) best practices for developing products and services
• Learn the concepts for the International Council on Systems Engineering (INCOSE) ASEP/CSEP certification and be better prepared to pass the exam

Ready to connect or have questions?
Call 1-800-684-UTEP to speak with an enrollment counselor today or visit us at utepconnect.utep.edu
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Admissions Requirements

To qualify for admission into the Graduate Certificate in Systems Engineering, you must:

- Complete and submit a graduate admissions application
- Submit official transcripts in accordance with the requirements of the Graduate School
- Write a brief statement of purpose
- Provide two letters of recommendation from individuals who can evaluate your ability to succeed in a rigorous graduate program, including one from the company sponsoring you (if appropriate)
- Provide other evidence of relevant personal or professional experience

Recommendations for admission are made on the basis of the following:

- GPA in upper-division or graduate work, as appropriate
- Professional commitment and interest as demonstrated by the personal statement and other supporting materials as available
- Letters of recommendation
- Leveling courses if applicable

**International students must also submit:**

- Official TOEFL (Test of English as a Foreign Language) scores

Curriculum

**Core Coursework**

- SE 5341 Systems Engineering Fundamentals
- SE 5342 Systems Engineering Management
- SE 5343 Systems Requirements Analysis
- SE 5344 Systems Integration, Verification & Validation
- SE 5345 Systems Engineering Project Practicum

**Total Credits: 15**

*Note: Curriculum is subject to change.*

Phone: 1-800-684-UTEP
Email: utepconnect@utep.edu
Website: utepconnect.utep.edu