

Online Graduate Certificate in Systems Engineering

Program Highlights

15 credit hours

In-state tuition: \$782/credit hour*

Out-of-state tuition: \$782/credit hour*

* Tuition is based on 2023-2024 rates and is subject to change.*

- Offered in an easily accessible 100% online format by UTEP's College of Engineering
- Designed for working professionals and students who are interested in learning how to develop and manage complex systems
- Curriculum prepares students to apply new engineering models to environments that are constantly changing and provides a pathway towards a master's degree
- Students enjoy access to industry partners like Lockheed Martin and Department of Defense contractors



Why a Graduate Certificate in Systems Engineering?

Systems engineering is an essential part of the way the world works today. It combines several skill areas — people, facilities, policies, hardware, software and documents — into an integrated discipline that combines human factors, technology, process engineering and management.

A graduate-level certificate in systems engineering is ideally suited to students who

- Are limited by time and resources and/or corporate sponsorship and are only able to commit to a 15 semester credit hour program
- Want to pursue systems engineering as a secondary interest
- Are getting degrees in other fields but would like to get a GCSE at the same time

Credits earned may also be applied towards a master's degree.

Opportunities in systems engineering are available in a wide range of industries including manufacturing, aerospace, defense, healthcare, electronics, automotive, education, software, government and other sectors that have a need for people who can understand and manage complex systems.



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 and application fee
- Have a bachelor's degree from an accredited university
- Submit official transcripts in accordance with the requirements of the Graduate School
- Write a brief statement of purpose
- Provide a letter of recommendation from an individual who can evaluate your ability to succeed in a rigorous graduate program, or 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.



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