

M.S. in Software Engineering

Admission Requirements

See the introduction to the College of Engineering for information about general requirements. Additionally, to be admitted to the Master of Science in Software Engineering (MSSwE), applicants must have a bachelor degree in any field of science or engineering from a regionally accredited institution in the U.S., or proof of equivalent education in a foreign institution. Students, who do not have the appropriate background may be required to complete leveling coursework at the undergraduate level. These courses will not be counted towards the MSSwE degree.

Students must apply through the Graduate School, submitting an application form and the following supporting materials:

- Official transcripts of all previous academic work.
- Applicants from countries where English is not the first language are required to demonstrate English proficiency. Please consult the graduate school (<http://catalog.utep.edu/admissions/graduate/graduate-student/>) website for required scores.
- Personal statement.
- Letters of recommendation, including one from the company sponsoring the student (if appropriate).
- Other evidence of relevant personal or professional experience.

Recommendation for admissions will be made on the basis of the following:

- Grade point average in the appropriate upper-division or graduate course work.
- Professional commitment and interest as demonstrated by the personal statement and other supporting materials as available.
- Letters of recommendation.

Degree Requirements

The MSSwE is a 30-semester-credit-hour (SCH) non-thesis professional program. Coursework includes:

- 15 SCH in the Software Engineering field (required courses)
- 12 SCH prescribed electives in Software Engineering and Computer Science
- 3 SCH Practicum Experience
- Students have the option of completing the Secure Cyber-Systems Track
- Students will have the option of requesting MSSwE Program Director's approval for inclusion of up to six credits from other programs in lieu of six credits from a prescribed elective.

Degree Plan

Required Credits: 30

Code	Title	Hours
All students are required to complete the following six core courses with a B average or better and with no more than one C		
Required Courses:		
CS 5374	Software Construction	3
CS 5385	Software Requirements Engr	3
CS 5386	Software Architecture & Design	3
CS 5387	Software Integration and V&V	3
CS 5388	Software Project Management	3
CS 5389	Software Engineering Practicum	3
Prescribed Electives:		
Select four courses from CS graduate courses		12
(All courses require a grade of C or better) Students have the option of requesting departmental approval for inclusion of up to six credits from other programs in lieu of six credits from prescribed electives.		
Total Hours		30

Concentration in Secure Cyber-Systems

Required Credits: 30

Code	Title	Hours
All students are required to complete the following seven core courses with a B average or better and with no more than one C.		
Required Courses:		
CS 5352	Computer Security	3
CS 5374	Software Construction	3
CS 5385	Software Requirements Engr	3
CS 5386	Software Architecture & Design	3
CS 5387	Software Integration and V&V	3
CS 5388	Software Project Management	3
CS 5389	Software Engineering Practicum	3
Prescribed Electives:		
Select three courses of the following:		9
(All courses require a grade of C or better)'		
CS 5313	Computer Networks	
CS 5339	Secure Web-Based Systems	
CS 5371	Software Safety & Risk Analysis	
CS 5372	Spec. & Desgn of Real-Time Sys	
CS 5373	Graduate Student Internship	
CS 5375	Software Reverse Engineering	
CS 5376	Comp. Dec Making & Risk Anal	
CS 5323	Wireless Networks	
Total Hours		30