

M.S. IN SOFTWARE ENGINEERING, ADVANCED NON-THESIS TRACK

Code	Title	Credits
Requirements (27 credits)		
Core Courses		
SE-571	Software Design and Systems Architecture	1.5
SE-572	Enterprise and Global Architecture	1.5
SE-580	The Process of Engineering Software	3
SE-610	Software Systems Security	3
Guided Electives		
Select THREE SETS of guided electives from the following:		18
SE-601 & SE-602	Outsourcing: Specifications and Strategies and Technology Assessment	
SE-620 & SE-621	Networked Software Systems I and Networked Software Systems II	
SE-625 & SE-626	Information Systems Architecture and Information Systems Engineering	
SE-630 & SE-631	Real Time Software Analysis and Specification and Real-Time Software Design and Implementation	
SE-650 & SE-651	Software Project Management and Software Organization Management	
Electives (3 credits)		
Select one of the following:		3
SE-601	Outsourcing: Specifications and Strategies	
SE-602	Technology Assessment	
SE-603	MOST Implementation	
SE-611	Secure Web Services Design	
SE-615	Usability Engineering/Human-Computer Interaction	
SE-616	Extensible Markup Language (XML)	
SE-620	Networked Software Systems I	
SE-625	Information Systems Architecture	
SE-626	Information Systems Engineering	
SE-630	Real Time Software Analysis and Specification	
SE-631	Real-Time Software Design and Implementation	
SE-650	Software Project Management	
SE-651	Software Organization Management	
Software Engineering 600-Level Special Topics Class		
Software Engineering 600-Level Independent Study		
CS-514	Networks	
CS-517	Database Design and Management	
CS-533	Database System Implementation	
BM-565	Management of Technology	
Total Credits		30

Note

- This track is open only to students with an undergraduate degree in Software Engineering.

Admission Requirements

- Possession of a baccalaureate degree in software engineering, computer science, computer engineering, or another engineering-related discipline with a 2.75 overall GPA and a 3.0 GPA in the undergraduate major. Candidates whose major is not computer science or a related field may be admitted on a case-by-case basis.
- Demonstrate completed course work in computer programming, data structures and algorithms, operating systems, discrete mathematics, and software engineering. Applicants who have not completed course work in these areas will be required to complete preparatory/foundation courses as necessary. (Only foundation coursework will be applied towards the MS degree.) Students must earn a grade of "B-" or better in each of these courses.
- Thesis track students must hold a bachelor's degree in software engineering from a college or university accredited by its regional accrediting agency.