

Master of Science in Software Engineering

Catalog Year: 2023

Total Degree Credit hours: 30

For students who are interested in this program but do not have the required prerequisite knowledge, completion of the Graduate Certificate in Software Engineering Foundations is required prior to admission to the MSSWE program.

Software Engineering Foundation Courses (15 Credit Hours)

CS 5040

Prerequisites

CS 5000 Foundations of Programming	None	3
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	CS 5000	3
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Software Testing and Verification	SWE 6623	3
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Program Options – Select One (15 Credit Hours)

Capstone Option

SWE 7903 Software Engineering Capstone	Prerequisites SWE 6613, SWE 6623, SWE 6673 and SWE 6633	3
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Elective Software Engineering Courses

	Prerequisites		
SWE 6733 Emerging Software Engineering Processes	SWE 6623	3	
SWE 6753 Game Design & Development	SWE 6623*	3	
SWE 6763 Software Evaluation and Measurement	SWE 6623	3	
SWE 6783 User Interaction Engineering	SWE 6623*	3	
SWE 6813 Web Service Engineering	SWE 6623	3	
SWE 6823 Embedded Systems	SWE 6623	3	
SWE 6853 Design Patterns	SWE 6623	3	
SWE 6863 Software Engineering Ethics and Legal Issues	CS 5003*	3	
SWE 6883 Formal Methods in Software Engineering	SWE 6623 & SWE 6613	3	
SWE 6903 Special Topics	Varies	1-3	
SWE 6803 Independent Study	Varies	1-3	