

Curriculum

□ MSE

Classification	Subject No.	Subject Name	L:L:C	Semester	Remark
Mandatory General Course	CC511	Probability and Statistics	2:3:3	Spring, Fall	
	CC513	Engineering Economy and Cost Analysis	3:0:3	Fall	
	CC522	Introduction to Instruments	2:3:3	Fall	
	CC530	Entrepreneurship and Business Strategies	3:0:3	Fall	*SEP584
Mandatory Major Course	SEP503	Computer Science for Software Engineers	3:0:3	Fall	*CS552
	SEP537	Models of Software Systems	3:0:3	Fall	
	SEP539	Methods: Deciding What to Design	3:0:3	Fall	
	SEP591	Managing Software Development	3:0:3	Fall	
	SEP601	Software Development Studio I	0:9:3	Fall	
	SEP602	Software Development Studio II	0:9:3	Fall	
	SEP603	Software Development Studio III	0:27:9	Summer	
		Analysis of Software Artifact	3:0:3	Spring	
	SEP604	Architecture for Software Systems	3:0:3	Spring	
CMU Software Studio		0:3:3	Summer		
Elective Course	SEP522	Requirement Engineering	3:1:3	Fall	*IE652
	SEP523	Software Design	3:1:3	Fall	
	SEP524	Software Quality Assurance	3:1:3	Fall	
	SEP525	Software Process	3:0:3	Spring, Fall	*CS654 (Fall)
	SEP531	Information Retrieval	3:0:3	Fall	
	SEP532	Machine learning and Data Mining	3:1:3	Fall	
	SEP533	Representation of knowledge and Semantics	3:1:3	Fall	
	SEP542	Enterprise System Integration	3:0:3	Fall	
	SEP544	Internet Service and Infra	3:0:3	Fall	*CS542
	SEP545	Database Design	3:0:3	Fall	*CS562
	SEP547	IT Service Engineering	3:0:3	Fall	
	SEP565	Mobile Embedded Software	3:0:3	Fall	
	SEP567	Digital Broadcasting and Understanding of Home Network	3:0:3	Fall	
	SEP583	Industrial Applications of Information Technology and Software Industry	3:0:3	Fall	
Elective Courses opened in CMU		3:0:3	Spring		
Research	SEP965	Independent Study(Master)	0:6:1	Spring	flexible credits
	SEP966	Seminar(Master)	1:0:1	or Fall	

* Note: * stands for substitutable courses

□ MSIT-SE

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Mandatory General Course	CC511	Probability and Statistics	2:3:3	Spring, Fall	
	CC513	Engineering Economy and Cost Analysis	3:0:3	Fall	
	CC522	Introduction to Instruments	2:3:3	Fall	
	CC530	Entrepreneurship and Business Strategies	3:0:3	Fall	*SEP584
Mandatory Major Course	SEP503	Computer Science for Software Engineers	3:0:3	Fall	
	SEP537	Models of Software Systems	3:0:3	Fall	*CS552
	SEP539	Methods: Deciding What to Design	3:0:3	Fall	
	SEP591	Managing Software Development	3:0:3	Fall	
		Analysis of Software Artifact	3:0:3	Spring	
		Architecture for Software Systems	3:0:3	Spring	
		Practicum Proposal	0:1:1	Fall	
		Practicum I	0:3:3	Spring	
	Practicum II	0:6:6	Summer		
Elective Course	SEP522	Requirement Engineering	3:1:3	Fall	
	SEP523	Software Design	3:1:3	Fall	*IE652
	SEP524	Software Quality Assurance	3:1:3	Fall	
	SEP525	Software Process	3:0:3	Spring, Fall	*CS654 (Fall)
	SEP531	Information Retrieval	3:0:3	Fall	
	SEP532	Machine learning and Data Mining	3:1:3	Fall	
	SEP533	Representation of knowledge and Semantics	3:1:3	Fall	
	SEP542	Enterprise System Integration	3:0:3	Fall	
	SEP544	Internet Service and Infra	3:0:3	Fall	*CS542
	SEP545	Database Design	3:0:3	Fall	*CS562
	SEP547	IT Service Engineering	3:0:3	Fall	
	SEP565	Mobile Embedded Software	3:0:3	Fall	
	SEP567	Digital Broadcasting and Understanding of Home Network	3:0:3	Fall	
	SEP583	Industrial Applications of Information Technology and Software Industry	3:0:3	Fall	
	Elective Courses opened in CMU	3:0:3	Spring		
Research	SEP965	Independent Study(Master)	0:6:1	Spring	flexible credits
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