B.S. in Software **Engineering**

Software Engineering

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Freshman Year Fall		Credits
CEC 220	Digital Circuit Design	3
CEC 222	Digital Circuit Design Laboratory	1
COM 122	English Composition	3
CS 118	Fundamentals of Computer Programming	3
or EGR 115	Introduction to Computing for Engineers	
EGR 101	Introduction to Engineering	2
MA 241	Calculus and Analytical Geometry I	4
UNIV 101	College Success	(1)
	Credits Subtotal	16.0
Spring		
COM 219	Speech	3
CS 125	Computer Science I	4
MA 242	Calculus and Analytical Geometry II	4
PS 161	Physics I & II for Engineers	4
	Credits Subtotal	15.0
Sophomore Yea	r	
Fall		
COM 221	Technical Report Writing (Must earn a C or better to pass COM 221)	3
CS 225	Computer Science II	4
CS 315	Data Structures and Analysis of Algorithms	3
	Humanities Lower-Level Elective	3
MA 225	Introduction to Discrete Structures	3
	Credits Subtotal	16.0
Spring		
HU 330	Values and Ethics	3
or HU 335	Technology and Modern Civilization	
	Humanities or Social Science Lower-Level or Upper-Level Elective	3
MA 243	Calculus and Analytical Geometry III	4
PS 250	Physics for Engineers III	3
PS 253	Physics Laboratory for Engineers	1
SE 300	Software Engineering Practices	3
	Credits Subtotal	17.0
Junior Year		
Fall		
CEC 320	Microprocessor Systems	3
CEC 322	Microprocessor Systems Laboratory	1
CS 317	Files and Database Systems	3
CS 420	Operating Systems	3
MA 412	Probability and Statistics	3
	Technical Elective	3
	Credits Subtotal	16.0
Spring		
CEC 470	Computer Architecture	3
MA 345	Differential Equations and Matrix Methods	4
SE 320	Software Construction	3
SE 420	Software Quality Assurance	3
SE 310	Analysis and Design of Software Systems	3
	Credits Subtotal	16.0

Senior Year Fall CEC 450 Real-Time Embedded Systems 3 CS 415 Human-Computer Interfaces 3 EC 225 Engineering Economics 3 Open Elective 3 SE 450 Software Team Project I 3 Credits Subtotal 15.0 Spring CS 332 Organization of Programming Languages 3 CS 425 Net-Centric Computing 3 CS 432 Information and Computer Security 3 Open Elective 3 SE 451 Software Team Project II 3 Credits Subtotal 15.0		Credits Total:	126.0
Fall CEC 450 Real-Time Embedded Systems 3 CS 415 Human-Computer Interfaces 3 EC 225 Engineering Economics 3 Open Elective 3 SE 450 Software Team Project I 3 Credits Subtotal 15.0 Spring CS 332 Organization of Programming Languages 3 CS 425 Net-Centric Computing 3 CS 432 Information and Computer Security 3 Open Elective 3		Credits Subtotal	15.0
Fall CEC 450 Real-Time Embedded Systems 3 CS 415 Human-Computer Interfaces 3 EC 225 Engineering Economics 3 Open Elective 3 SE 450 Software Team Project I 3 Credits Subtotal 15.0 Spring CS 332 Organization of Programming Languages 3 CS 425 Net-Centric Computing 3 CS 432 Information and Computer Security 3	SE 451	Software Team Project II	3
Fall CEC 450 Real-Time Embedded Systems 3 CS 415 Human-Computer Interfaces 3 EC 225 Engineering Economics 3 Open Elective 3 SE 450 Software Team Project I 3 Credits Subtotal 15.0 Spring CS 332 Organization of Programming Languages 3 CS 425 Net-Centric Computing 3		Open Elective	3
Fall CEC 450 Real-Time Embedded Systems 3 CS 415 Human-Computer Interfaces 3 EC 225 Engineering Economics 3 Open Elective 3 SE 450 Software Team Project I 3 Credits Subtotal 15.0 Spring CS 332 Organization of Programming Languages 3	CS 432	Information and Computer Security	3
Fall CEC 450 Real-Time Embedded Systems 3 CS 415 Human-Computer Interfaces 3 EC 225 Engineering Economics 3 Open Elective 3 SE 450 Software Team Project I 3 Credits Subtotal 15.0 Spring	CS 425	Net-Centric Computing	3
Fall CEC 450 Real-Time Embedded Systems 3 CS 415 Human-Computer Interfaces 3 EC 225 Engineering Economics 3 Open Elective 3 SE 450 Software Team Project I 3 Credits Subtotal 15.0	CS 332	Organization of Programming Languages	3
Fall CEC 450 Real-Time Embedded Systems 3 CS 415 Human-Computer Interfaces 3 EC 225 Engineering Economics 3 Open Elective 3	Spring	Credits Subtotal	15.0
Fall CEC 450 Real-Time Embedded Systems 3 CS 415 Human-Computer Interfaces 3 EC 225 Engineering Economics 3	SE 450	Software Team Project I	3
Fall CEC 450 Real-Time Embedded Systems 3 CS 415 Human-Computer Interfaces 3		Open Elective	3
Fall CEC 450 Real-Time Embedded Systems 3	EC 225	Engineering Economics	3
Fall	CS 415	Human-Computer Interfaces	3
	CEC 450	Real-Time Embedded Systems	3