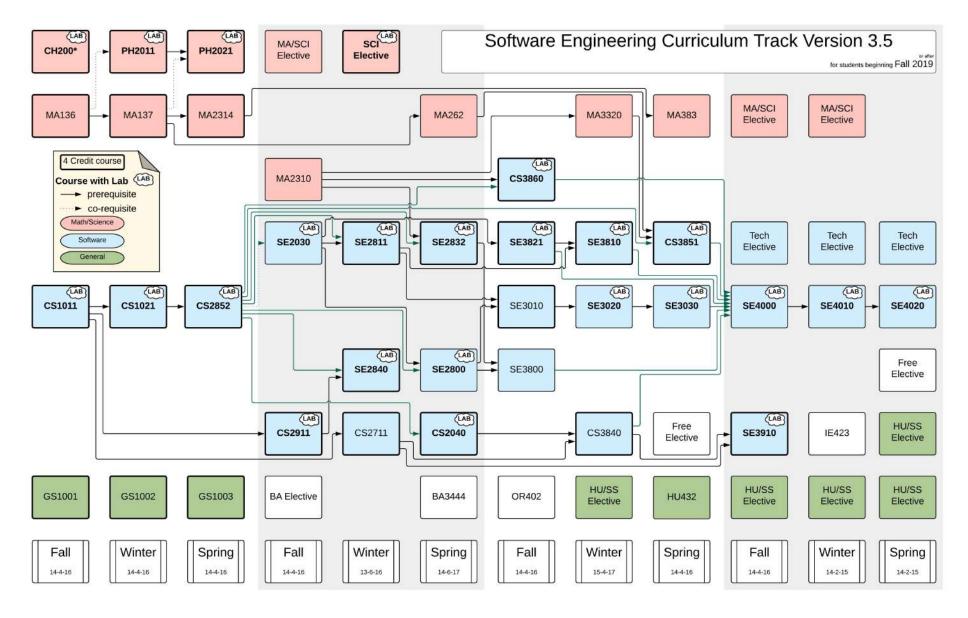
Bachelor of Science in Software Engineering Model Full-Time Track - V3.5

	Freshman Year	Q1	Q2	Q3	
CS1011	Software Development I ¹	4			
CH200 ²	Chemistry I ^{1,2}	4			
MA136	Calculus for Engineers I	4			
GS1001	Freshman Studies I	4			
Total: 14 hours lecture, 4 hours lab Credits: 16					
CS1021	Software Development II ¹		4		
PH2011	Physics I – Mechanics ¹		4		
MA137	Calculus for Engineers II		4		
GS1002	Freshman Studies II		4		
	Total: 14 hours lecture, 4 hours	ours lab	Cred	lits: 16	
CS2852	Data Structures ¹			4	
PH2021	Physics II – Electromagnetics ¹			4	
MA2314	Calculus for Engineers III			4	
GS1003	Freshman Studies III			4	
	Total: 14 hours lecture, 4 ho	ours lab	Cre	dits: 16	
	Sophomore Year	Q1	Q2	Q3	
SE2030	Sophomore Year Software Engineering Tools and Practices ¹	Q1 3	Q2	Q3	
SE2030 CS2911	· · · · · · · · · · · · · · · · · · ·		Q2	Q3	
	Software Engineering Tools and Practices ¹	3	Q2	Q3	
CS2911	Software Engineering Tools and Practices ¹ Network Protocols ¹	3 4	Q2	Q3	
CS2911	Software Engineering Tools and Practices ¹ Network Protocols ¹ Discrete Mathematics I	3 4 3	Q2	Q3	
CS2911	Software Engineering Tools and Practices ¹ Network Protocols ¹ Discrete Mathematics I Math/Science Elective ³ Business Elective ³ Total: 14 hours lecture, 4 hours	3 4 3 3 3		Q3 dits: 16	
CS2911	Software Engineering Tools and Practices ¹ Network Protocols ¹ Discrete Mathematics I Math/Science Elective ³ Business Elective ³ Total: 14 hours lecture, 4 hours Software Component Design ¹	3 4 3 3 3			
CS2911 MA2310	Software Engineering Tools and Practices ¹ Network Protocols ¹ Discrete Mathematics I Math/Science Elective ³ Business Elective ³ Total: 14 hours lecture, 4 hours	3 4 3 3 3	Cre		
CS2911 MA2310 SE2811	Software Engineering Tools and Practices ¹ Network Protocols ¹ Discrete Mathematics I Math/Science Elective ³ Business Elective ³ Total: 14 hours lecture, 4 hours Software Component Design ¹ Web Application Development ¹ Computer Organization	3 4 3 3 3	Cre 4		
CS2911 MA2310 SE2811 SE2840	Software Engineering Tools and Practices ¹ Network Protocols ¹ Discrete Mathematics I Math/Science Elective ³ Business Elective ³ Total: 14 hours lecture, 4 hours Software Component Design ¹ Web Application Development ¹	3 4 3 3 3	Cre 4 4		
CS2911 MA2310 SE2811 SE2840	Software Engineering Tools and Practices ¹ Network Protocols ¹ Discrete Mathematics I Math/Science Elective ³ Business Elective ³ Total: 14 hours lecture, 4 hours Software Component Design ¹ Web Application Development ¹ Computer Organization	3 4 3 3 3	Cre- 4 4		
CS2911 MA2310 SE2811 SE2840	Software Engineering Tools and Practices¹ Network Protocols¹ Discrete Mathematics I Math/Science Elective³ Business Elective³ Total: 14 hours lecture, 4 hours lecture, 5 hours lecture, 6 hours	3 4 3 3 3 3 burs lab	Crec 4 4 4 4 4 4	dits: 16	
CS2911 MA2310 SE2811 SE2840	Software Engineering Tools and Practices¹ Network Protocols¹ Discrete Mathematics I Math/Science Elective³ Business Elective³ Total: 14 hours lecture, 4 hours software Component Design¹ Web Application Development¹ Computer Organization Science Elective¹³ Total: 13 hours lecture, 6 hours some programming in C and C++¹	3 4 3 3 3 3 burs lab	Crec 4 4 4 4 4 4	dits: 16	
CS2911 MA2310 SE2811 SE2840 CS2711	Software Engineering Tools and Practices¹ Network Protocols¹ Discrete Mathematics I Math/Science Elective³ Business Elective³ Total: 14 hours lecture, 4 hours lecture, 5 hours lecture, 6 hours	3 4 3 3 3 3 burs lab	Crec 4 4 4 4 4 4	dits: 16	
CS2911 MA2310 SE2811 SE2840 CS2711	Software Engineering Tools and Practices¹ Network Protocols¹ Discrete Mathematics I Math/Science Elective³ Business Elective³ Total: 14 hours lecture, 4 hours software Component Design¹ Web Application Development¹ Computer Organization Science Elective¹³ Total: 13 hours lecture, 6 hours some programming in C and C++¹	3 4 3 3 3 3 burs lab	Crec 4 4 4 4 4 4	dits: 16	
CS2911 MA2310 SE2811 SE2840 CS2711 CS2040 SE2800	Software Engineering Tools and Practices ¹ Network Protocols ¹ Discrete Mathematics I Math/Science Elective ³ Business Elective ³ Total: 14 hours lecture, 4 hours lecture, 4 hours lecture, 4 hours lecture, 5 hours lecture, 6 hours lecture organization Science Elective ^{1,3} Total: 13 hours lecture, 6 hours	3 4 3 3 3 3 burs lab	Crec 4 4 4 4 4 4	dits: 16 dits: 16	
CS2911 MA2310 SE2811 SE2840 CS2711 CS2040 SE2800 SE2832	Software Engineering Tools and Practices¹ Network Protocols¹ Discrete Mathematics I Math/Science Elective³ Business Elective³ Total: 14 hours lecture, 4 hours lecture, 5 hours lecture, 6 hours	3 4 3 3 3 3 burs lab	Crec 4 4 4 4 4 4	dits: 16 dits: 16 4 3 4	

	Junior Year	Q1	Q2	Q3	
SE3010	Software Development Laboratory I	4			
SE3800	Software Engineering Process II	3			
SE3821	Software Requirements and Specification ¹	4			
CS3860	Introduction to Database Systems ¹	4			
OR402	Professional Guidance	1			
Total: 14 hours lecture, 4 hours lab Credits: 16					
SE3020	Software Development Laboratory II ¹		3		
SE3810	Principles of Software Architecture ¹		4		
CS3840	Operating Systems		4		
MA3320	Discrete Mathematics II		3		
	Humanities/Social Science Elective ³		3		
	Total: 15 hours lecture, 4	4 hours lab	Cre	dits: 17	
SE3030	Software Development Laboratory III ¹			3	
CS3851	Algorithms ¹			4	
MA383	Linear Algebra			3	
HU432	Ethics for Prof. Managers and Engineers			3	
	Free Elective ³			3	
Total: 14 hours lecture, 4 hours lab Credits: 16					
	Senior Year	Q1	Q2	Q3	
SE4000	Senior Design Project I ¹	Q1 3	Q2	Q3	
SE4000	Senior Design Project I ¹ Technical Elective ³		Q2	Q3	
SE4000 SE3910	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹	3	Q2	Q3	
	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³	3	Q2	Q3	
	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³	3 3 4 3 3			
SE3910	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture,	3 3 4 3 3	Cre	Q3 dits: 16	
	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture, ⁴ Senior Design Project II ¹	3 3 4 3 3	Cre 3		
SE3910	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture, 4 Senior Design Project II ¹ Technical Elective ³	3 3 4 3 3	Cre 3 3		
SE3910	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture, ⁴ Senior Design Project II ¹ Technical Elective ³ Math/Science Elective ³	3 3 4 3 3	Cre 3 3 3 3		
SE3910	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture, 4 Senior Design Project II ¹ Technical Elective ³ Math/Science Elective ³ Engineering Economy	3 3 4 3 3	Cre 3 3 3 3 3		
SE3910 SE4010	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture, 4 Senior Design Project II ¹ Technical Elective ³ Math/Science Elective ³ Engineering Economy Humanities/Social Science Elective ³	3 3 4 3 3 4 hours lab	Cre 3 3 3 3	dits: 16	
SE3910 SE4010	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture, 4 Senior Design Project II ¹ Technical Elective ³ Math/Science Elective ³ Engineering Economy Humanities/Social Science Elective ³ Total: 13 hours lecture, 2	3 3 4 3 3 4 hours lab	Cre 3 3 3 3	dits: 16	
SE3910 SE4010	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture, 4 Senior Design Project II ¹ Technical Elective ³ Math/Science Elective ³ Engineering Economy Humanities/Social Science Elective ³ Total: 13 hours lecture, 2 Senior Design Project III ¹	3 3 4 3 3 4 hours lab	Cre 3 3 3 3	dits: 16 dits: 15	
SE3910 SE4010	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture, 4 Senior Design Project II ¹ Technical Elective ³ Math/Science Elective ³ Engineering Economy Humanities/Social Science Elective ³ Total: 13 hours lecture, 2 Senior Design Project III ¹ Technical Elective ³	3 3 4 3 3 4 hours lab	Cre 3 3 3 3	dits: 16 dits: 15 3 3	
SE3910 SE4010	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture, 4 Senior Design Project II ¹ Technical Elective ³ Math/Science Elective ³ Engineering Economy Humanities/Social Science Elective ³ Total: 13 hours lecture, 4 Senior Design Project III ¹ Technical Elective ³ Humanities/Social Science Elective ³	3 3 4 3 3 4 hours lab	Cre 3 3 3 3	dits: 16 dits: 15 3 3	
SE3910 SE4010	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Senior Design Project II ¹ Technical Elective ³ Math/Science Elective ³ Engineering Economy Humanities/Social Science Elective ³ Total: 13 hours lecture, 2 Senior Design Project III ¹ Technical Elective ³ Humanities/Social Science Elective ³ Humanities/Social Science Elective ³ Humanities/Social Science Elective ³	3 3 4 3 3 4 hours lab	Cre 3 3 3 3	dits: 16 dits: 15 3 3 3	
SE3910 SE4010	Senior Design Project I ¹ Technical Elective ³ Real-Time Systems ¹ Math/Science Elective ³ Humanities/Social Science Elective ³ Total: 14 hours lecture, 4 Senior Design Project II ¹ Technical Elective ³ Math/Science Elective ³ Engineering Economy Humanities/Social Science Elective ³ Total: 13 hours lecture, 4 Senior Design Project III ¹ Technical Elective ³ Humanities/Social Science Elective ³	3 3 4 3 3 4 hours lab	Cre 3 3 3 3 Cre	dits: 16 dits: 15 3 3	



There are 46 credits of elective subjects in the software engineering program that must be taken as follows:

- 15 credits of humanities and social sciences: 6 credits of humanities (HU), 6 credits of social sciences (SS), and 3 credits of humanities or social sciences
- 9 credits of approved math/science electives
- · 9 credits of approved program electives
- · 6 credits of approved courses from any area

- · 4 credits of an approved science elective
- 3 credits of an approved business/entrepreneurship elective

*CH-200 may be replaced with BI-102 - Cell Biology and Genetics.