Bachelor of Science in Software Engineering
Model Full-Time Track - V3.3

Freshman Year		Q1	Q2	Q3
SE1011	Software Development I[3]	4		
CH200[1]	Chemistry I[1,3]	4		
MA136	Calculus for Engineers I	4		
GS1001	Freshman Studies I	4		
Total: **14** hours lecture, **4** hours lab		Credits: **16**		
SE1021	Software Development II[3]		4	
PH2011	Physics I - Mechanics[3]		4	
MA137	Calculus for Engineers II		4	
GS1002	Freshman Studies II		4	
Total: **14** hours lecture, **4** hours lab		Credits: **16**		
CS2852	Data Structures[3]			4
PH2021	Physics II - Electromagnetics[3]			4
MA231	Calculus for Engineers III			4
GS1003	Freshman Studies III			4
Total: **14** hours lecture, **4** hours lab		Credits: **16**		

Sophomore Year		Q1	Q2	Q3
SE2030	Software Engineering Tools and Practices[3]	3		
CS2911	Network Protocols[3]	4		
MA2310	Discrete Mathematics I	3		
	Math/Science Elective[2]	3		
	Business Elective[2]	3		
Total: **14** hours lecture, **4** hours lab		Credits: **16**		
SE2811	Software Component Design[3]		4	
SE2840	Web Application Development[3]		4	
CS2711	Computer Organization		4	
	Science Elective[2,3]		4	
Total: **13** hours lecture, **6** hours lab		Credits: **16**		
SE2040	Software Development III[3]			4
SE2800	Software Engineering Process I[3]			3
SE2832	Introduction to Software Verification[3]			4
MA262	Probability and Statistics			3
BA3444	Org. Behavior & Leadership Development			3
Total: **14** hours lecture, **6** hours lab		Credits: **17**		

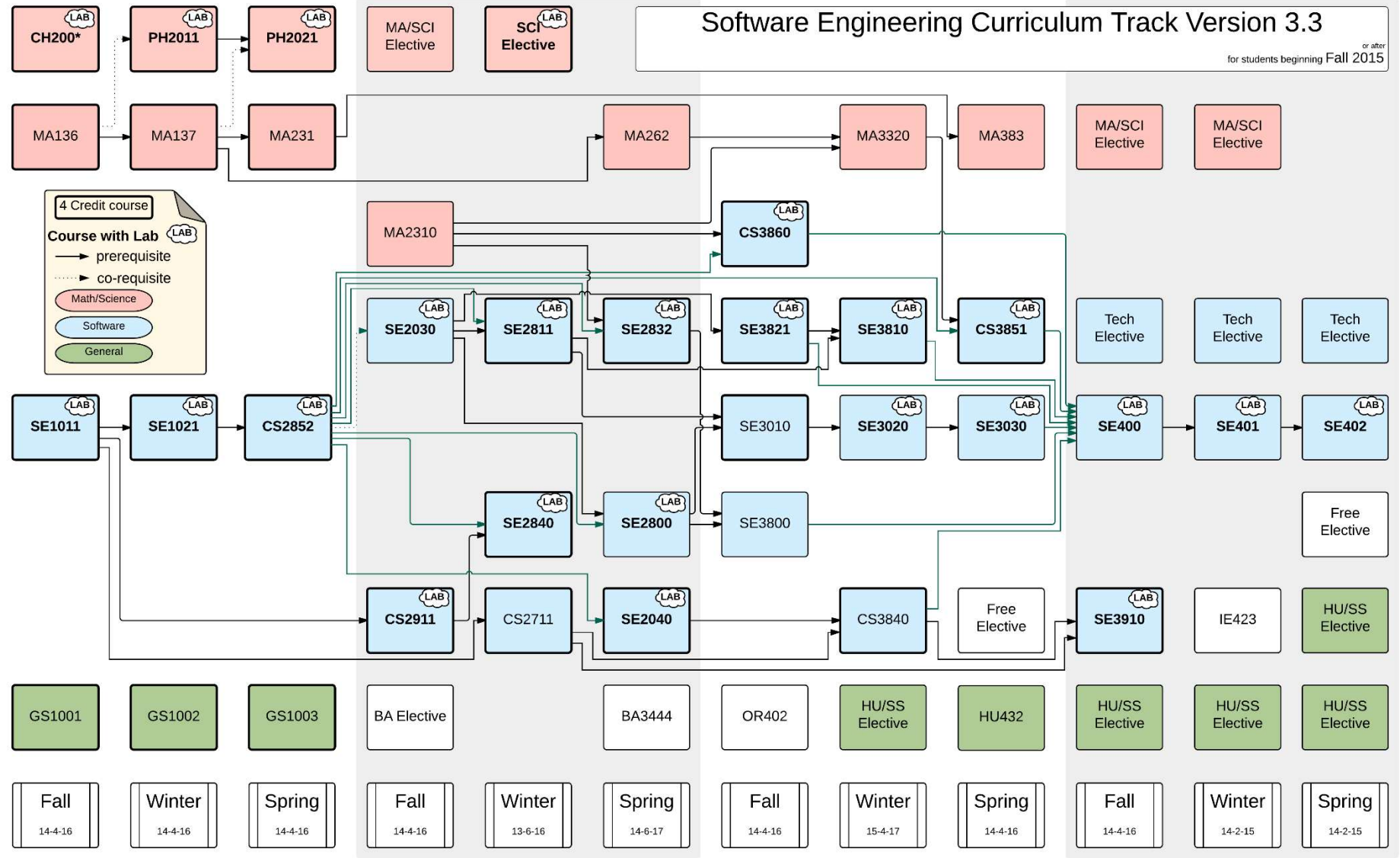| Junior Year		Q1	Q2	Q3
SE3010	Software Development Laboratory I	4		
SE3800	Software Engineering Process II	3		
SE3821	Software Requirements and Specification[3]	4		
CS3860	Introduction to Database Systems[3]	4		
OR402	Professional Guidance	1		
Total: **14** hours lecture, **4** hours lab		Credits: **16**		
SE3020	Software Development Laboratory II[3]		3	
SE3810	Principles of Software Architecture[3]		4	
CS3840	Operating Systems		4	
MA3320	Discrete Mathematics II		3	
	Humanities/Social Science Elective[2]		3	
Total: **15** hours lecture, **4** hours lab		Credits: **17**		
SE3030	Software Development Laboratory III[3]			3
CS3851	Algorithms[3]			4
MA383	Linear Algebra			3
HU432	Ethics for Prof. Managers and Engineers			3
	Free Elective[2]			3
Total: **14** hours lecture, **4** hours lab		Credits: **16**		

Senior Year		Q1	Q2	Q3
SE400	Senior Design Project I[3]	3		
	Technical Elective[2]	3		
SE3910	Real-Time Systems[3]	4		
	Math/Science Elective[2]	3		
	Humanities/Social Science Elective[2]	3		
Total: **14** hours lecture, **4** hours lab		Credits: **16**		
SE401	Senior Design Project II[3]		3	
	Technical Elective[2]		3	
	Math/Science Elective[2]		3	
IE423	Engineering Economy		3	
	Humanities/Social Science Elective[2]		3	
Total: **13** hours lecture, **2** hours lab		Credits: **15**		
SE402	Senior Design Project III[3]			3
	Technical Elective[2]			3
	Humanities/Social Science Elective[2]			3
	Humanities/Social Science Elective[2]			3
	Free Elective[2]			3
Total: **13** hours lecture, **2** hours lab		Credits: **15**		

[1]CH-200 may be replaces with BI-102 – Cell Biology and Genetics   [2]46 credits of specific electives   [3]Includes a laboratory

Software Engineering Curriculum Track Version 3.3

for students beginning Fall 2015 or after

Legend:
- 4 Credit course
- Course with Lab (LAB)
- → prerequisite
- ⋯▶ co-requisite
- Math/Science
- Software
- General

Math/Science courses
- CH200* (LAB)
- PH2011 (LAB)
- PH2021 (LAB)
- MA/SCI Elective
- SCI Elective (LAB)
- MA136
- MA137
- MA231
- MA262
- MA3320
- MA383
- MA/SCI Elective
- MA/SCI Elective
- MA2310

Software courses
- CS3860 (LAB)
- SE2030 (LAB)
- SE2811 (LAB)
- SE2832 (LAB)
- SE3821 (LAB)
- SE3810 (LAB)
- CS3851 (LAB)
- Tech Elective
- Tech Elective
- Tech Elective
- SE1011 (LAB)
- SE1021 (LAB)
- CS2852 (LAB)
- SE3010
- SE3020 (LAB)
- SE3030 (LAB)
- SE400 (LAB)
- SE401 (LAB)
- SE402 (LAB)
- SE2840 (LAB)
- SE2800 (LAB)
- SE3800
- Free Elective
- CS2911 (LAB)
- CS2711
- SE2040 (LAB)
- CS3840
- Free Elective
- SE3910 (LAB)
- IE423
- HU/SS Elective

General courses
- GS1001
- GS1002
- GS1003
- BA Elective
- BA3444
- OR402
- HU/SS Elective
- HU432
- HU/SS Elective
- HU/SS Elective
- HU/SS Elective

Term schedule
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
14-4-16	14-4-16	14-4-16	14-4-16	13-6-16	14-6-17	14-4-16	15-4-17	14-4-16	14-4-16	14-2-15	14-2-15

Change from version 3.2: MS340 ← BA3444