

BS Software Engineering Suggested Four Year Plan 2016 – 17 Catalog

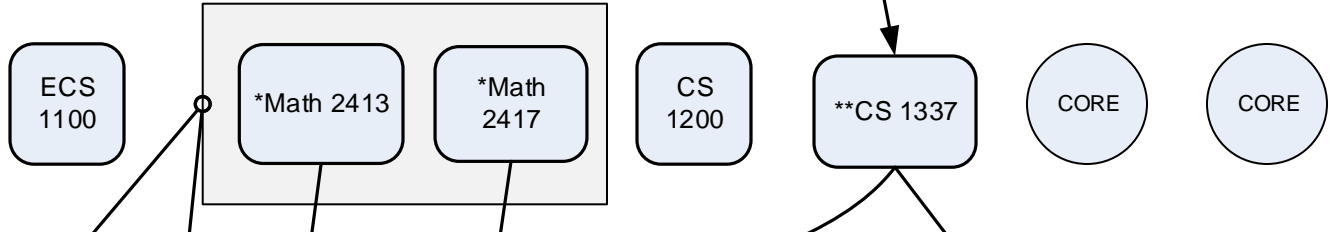
6/1/2016

(**CS 1336/1136)

CS 1336 is required of students with no prior programming experience
Not For Credit in ECS C or better needed

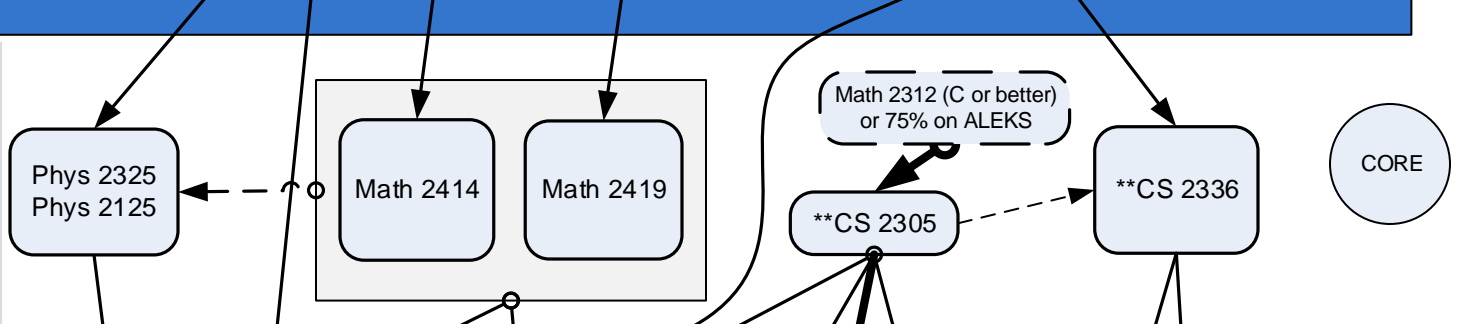
Freshman

Description	Course No
Introduction to CS & SE	CS 1200
Introduction to Engr & CS	ECS 1100
Calculus I	Math 2413 or 2417
Computer Science I	CS 1337
6 hours CORE: Choices below	



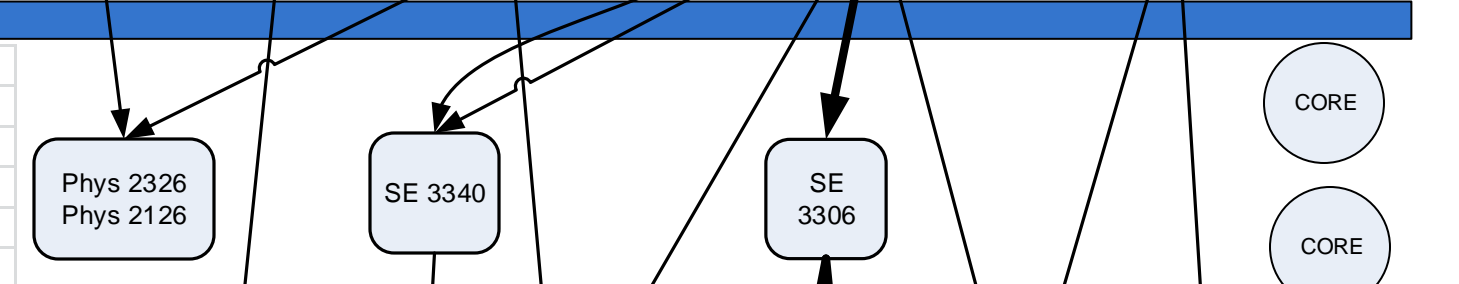
Freshman

Description	Course No
Computer Science II	CS 2336
Discrete Mathematics I	CS 2305
Calculus II	Math 2414 or 2419
Mechanics and Heat	Phys 2325
Mechanics and Heat Lab	Phys 2125
3 hours CORE: Choices below	



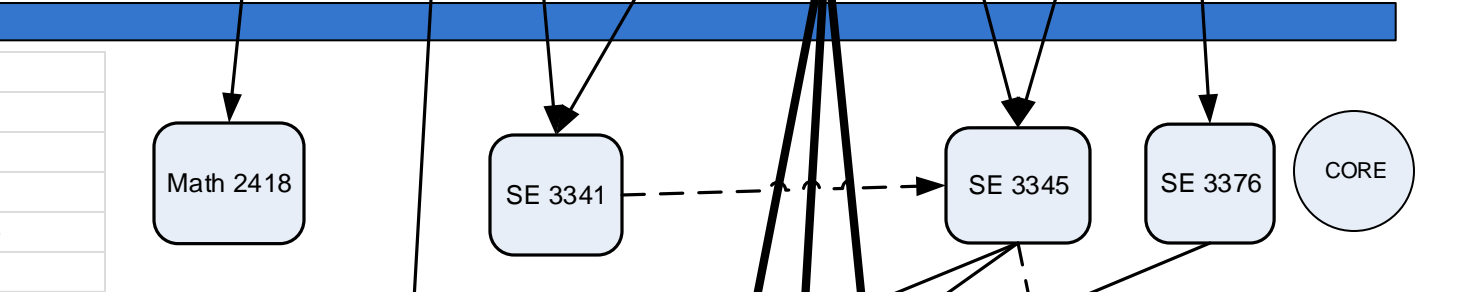
Sophomore

Description	Course No
Mathematics Foundations of SE	SE 3306
Computer Architecture	SE 3340
Electricity and Magnetism	Phys 2326
Electricity and Magnetism Lab	Phys 2126
6 hours CORE: Choices below	



Sophomore

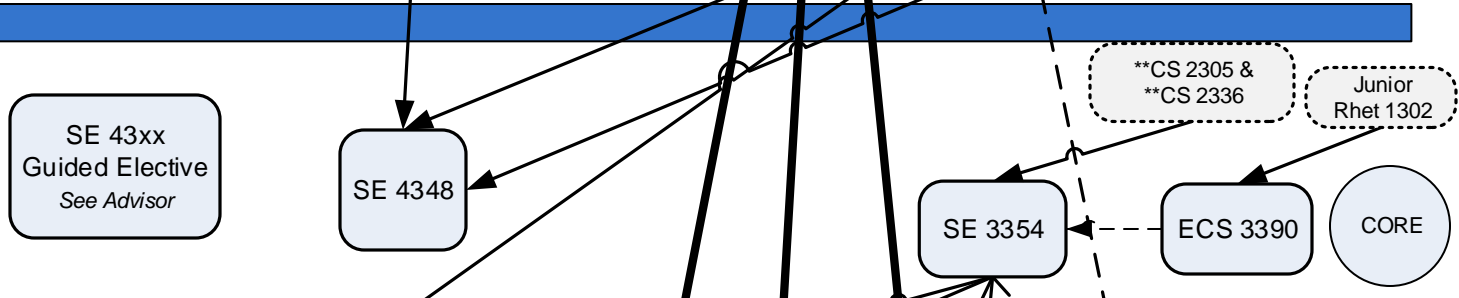
Description	Course No
Probability & Statistics in CS	SE 3341
Algorithms Analysis & Data Struct	SE 3345
C/C++ Prog'ing in a UNIX Env.	SE 3376
Linear Algebra	Math 2418
3 hours CORE: Choices below	



At this point, you should choose a domain.

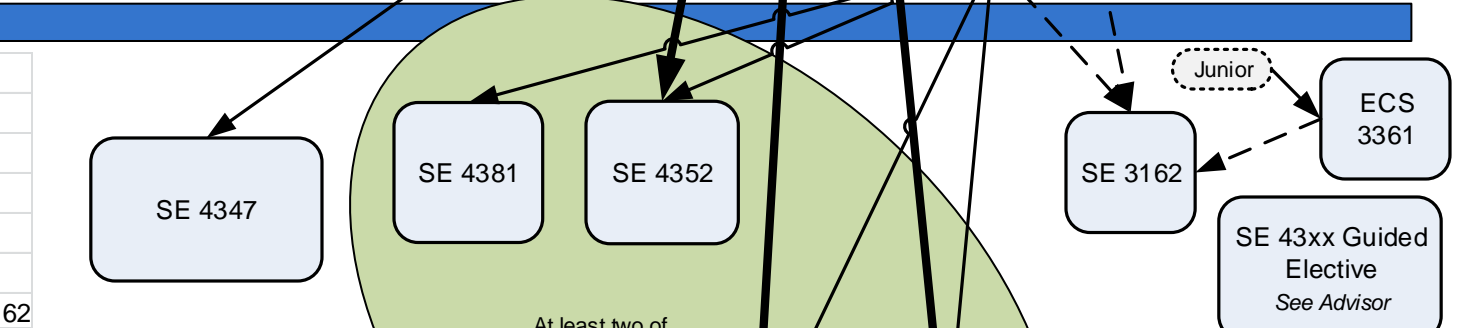
Junior

Description	Course No
Software Engineering	SE 3354
Operating Systems	SE 4348
SE Guided Elective	SE 43XX
Prof & Tech Communication	ECS 3390
3 hours CORE: Choices below	



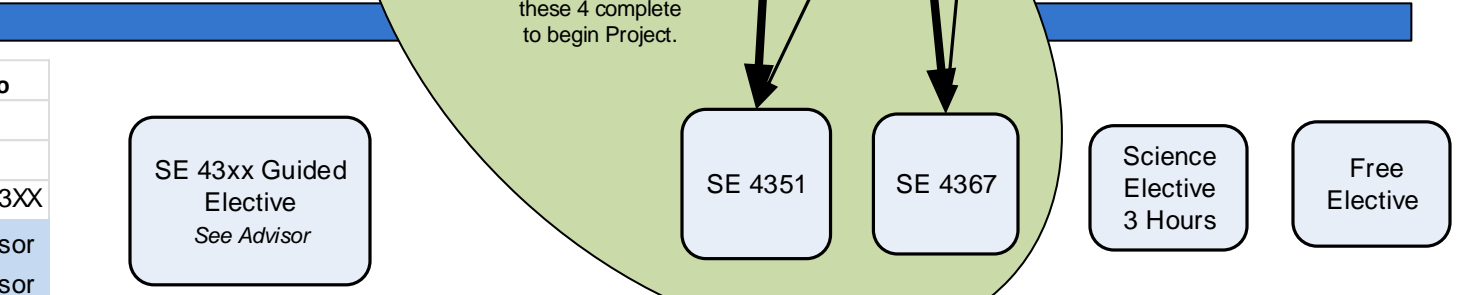
Junior

Description	Course No
Software Project Planning & Mgmt.	SE 4381
Software Architecture & Design	SE 4352
3 hours SE Guided Elective	SE 43XX
Social Issues & Ethics in ECS	ECS 3361
Database Systems	SE 4347
Prof. Responsibility in CS & SE	SE/CS 3162



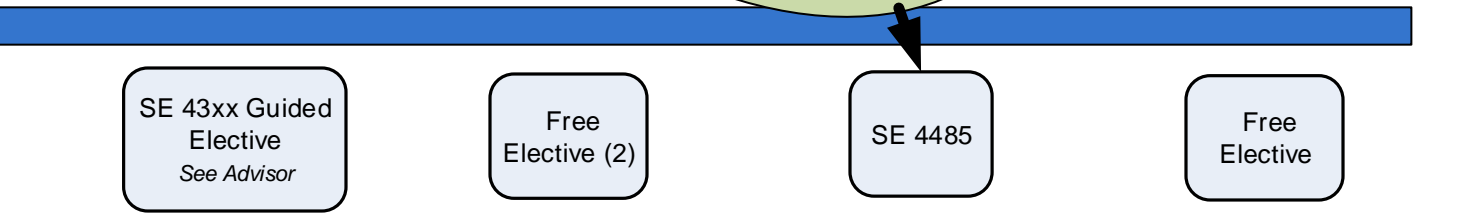
Senior

Description	Course No
Software Testing, Verif, Valid, QA	SE 4367
Requirements Engineering	SE 4351
3 hours SE Guided Elective	SE/CS 43XX
3 hours Free Elective	See Advisor
3 hours Science Elective	See Advisor



Senior

Description	Course No
Software Engineering Project	SE 4485
3 hours SE Guided Elective	SE 43XX
5 hours Free Elective	See Advisor



*A grade of C- or better is needed in Math 2413 or Math 2417 to move forward.
**A grade of C or better is required for CS 1336, CS 1337, CS 2305, and CS 2336.

Core Choices				Courses may be taken in any order, as long as prerequisites are met.	LEGEND → Prereq Critical Path → Pre-requisite - - - Pre- or Co-requisite
Rhet 1302	3 hours From:	3 hours From:	6 hours From:		
Govt 2305 Govt 2306	Ahst 1303, 1304, 2331 Arts1301 Danc 1310 Dram 1310 Film 2332 Musi 1306	Ams 2300 Ams 2341 Huma 1301 Lit 2331 Phil 1301 Phil 2316, 2317	Hist 1301 Hist 1302 Hist 2301 Hist 2330 Hist 2332	Domains and Guided Electives (12hrs) Students should complete three courses from one of the application domains. See the document entitled "Application Domains." Further guided electives can be selected from the CS/SE 43xx level classes.	