Erik Jonsson School of Engineering and Computer Science

Software Engineering (BS)

Degree Requirements (123 semester credit hours)

Four-Year Degree Plan (Example)

This is an example only. Please see your advisor to develop your individual plan.

Freshman Year			
Fall Semester	**SCH**	**Spring Semester**	**SCH**
060 Core Course	3	060 Core Course	3
MATH 2413 Differential Calculus[2,4]	4	MATH 2414 Integral Calculus[2,4,10]	4
CS 1200 Introduction to Computer Science and Software Engineering	2	CS 2305 Discrete Mathematics for Computing I	3
CS 1337 Computer Science I[9]	3	CS 2336 Computer Science II[10]	3
RHET 1302 Rhetoric[2,11]	3	PHYS 2325 Mechanics[2,5,10]	3
ECS 1100 Introduction to Engineering and Computer Science[1,5]	1	PHYS 2125 Physics Laboratory I[2,5,10]	1
UNIV 1010 Freshman Seminar[1]	0		
	16		17
Sophomore Year			
Fall Semester	**SCH**	**Spring Semester**	**SCH**
040 Core Course	3	MATH 2418 Linear Algebra	4
GOVT 2305 American National Government[2]	3	GOVT 2306 State and Local Government[2]	3
SE 3306 Mathematical Foundations of Software Engineering[10]	3	SE 3341 Probability and Statistics in Computer Science and Software Engineering	3
SE 3340 Computer Architecture[3]	3	SE 3345 Data Structures and Introduction to Algorithmic Analysis	3

PHYS 2326 Electromagnetism and Waves[2,5,10]	3	SE 3377 C/C++ Programming in a UNIX Environment	3
PHYS 2126 Physics Laboratory II[10]	1		
	16		16
Junior Year			
Fall Semester	**SCH**	**Spring Semester**	**SCH**
050 Core Course	3	ECS 3361 Social Issues and Ethics in Computer Science and Engineering[2,6]	3
ECS 3390 Professional and Technical Communication[2,3,8,10]	3	SE 3162 Professional Responsibility in Computer Science and Software Engineering[10]	1
SE 3354 Software Engineering[10]	3	SE 4347 Database Systems	3
SE 4348 Operating Systems Concepts[10]	3	SE 4352 Software Architecture and Design[10]	3
SE Guided Elective	3	SE 4381 Software Project Planning and Management[10]	3
		SE Guided Elective	3
	15		16
Senior Year			
Fall Semester	**SCH**	**Spring Semester**	**SCH**
030 Core Course	3	UNIV 2020 Core Curriculum Assessment	0
SE 4351 Requirements Engineering	3	SE 4485 Software Engineering Project	4
SE 4367 Software Testing, Verification, Validation and Quality Assurance	3	Free Elective	3
Free Elective	3	Free Elective	2
SE Guided Elective	3	SE Guided Elective	3
	15		12

NOTES:

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
2. Curriculum Requirements can be fulfilled by other approved courses from accredited institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.
3. Semester credit hours fulfill the communication component of the Core Curriculum.
4. Three semester credit hours of Calculus are counted under Mathematics Core, and five semester credit hours of Calculus are counted as Component Area Option Core.

5	Six semester credit hours of Physics are counted under Science core, and one semester credit hour of Physics (PHYS 2125) is counted as Component Area Option Core.
6	Semester credit hours contribute to the Social and Behavioral Sciences component of the Core Curriculum.
7	Transfer students with sufficient background may petition to substitute upper-division semester credit hours in the major for this class.
8	Semester credit hours fulfill the communication elective of the Core Curriculum.
9	Depending on placement, student may need to complete CS 1336/1136 Programming Fundamentals prior to enrolling in CS/CE 1337 Computer Science I.
10	Earliest semester course can be taken due to pre- or co-requisite course requirements.
11	Must complete by 3rd semester of enrollment.

Students wishing to fast track into the graduate program in Accounting may take up to six (6) semester credit hours of graduate ACCT electives - see the Undergraduate Accounting Program Director or the Associate Area Coordinator, for specific fast-track courses. Cumulative GPA of 3.4 minimum required for Fast-Track Program. See Academic Advisor for other requirements.

Be sure to check prerequisites of Level 2 courses

120 semester credit hours required for graduation

This plan is a resource tool only; it does not replace your degree plan or academic advising.

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