

B.S. in SOFTWARE ENGINEERING (2022-2023 Catalog)

Student _____

UTD ID _____

MAJOR PREPARATORY REQUIREMENTS*

LD	UD	NTS	COURSE TITLE	COURSE #	GRADE	SEM	INFO
1		3,4,6	Introduction to Engineering and CS	ECS 1100			
2		3,4,6	Introduction to CS and SE	CS 1200			
3		1,6	Programming Fundamentals	CS 1336			
1		3,6	Computer Science Laboratory	CS 1136			
3		1,6	Computer Science I	CS 1337			
3		1,6	Discrete Mathematics for Computing I	CS 2305			
3		1,6	Computer Science II	CS 2336 or 2337			
3		3,6	Computer Architecture	SE 2340			
4		2,6	Calculus I	MATH 2413 or 2417			
4		3,6	Calculus II	MATH 2414 or 2419			
3		3,6	Math Guided Elective	click to view options			
4		3,6	Linear Algebra	MATH 2418			
3		3,6	Mechanics	PHYS 2325			
1		3,6	Physics Laboratory I	PHYS 2125			
3		3,6	Electromagnetism and Waves	PHYS 2326			
1		3,6	Physics Laboratory II	PHYS 2126			
42	0						

MAJOR CORE REQUIREMENTS*

	1	3	Professional Responsibility in CS/SE	SE 3162			
	3	3	Mathematics Foundations of SE	SE 3306			
	3	3	Probability & Statistics in CS/SE	SE 3341			
	3	3	Data Structures & Int. to Algorithms	SE 3345			
	3	3	Software Engineering	SE 3354			
	3	3	C/C++ Programming in a UNIX Envir	SE 3377			
	3	3	Database Systems	SE 4347			
	3	3	Operating Systems Concepts	SE 4348			
	3	3	Requirements Engineering	SE 4351			
	3	3	Software Architecture & Design	SE 4352			
	3	3	Software Testing, Verif, Valid, QA	SE 4367			
	3	3	Software Project Planning & Mgmt.	SE 4381			
	4	3	Software Engineering Project	SE 4485			
	3	3	SE Guided Elective	SE/CS 43XX			
	3	3	SE Guided Elective	SE/CS 43XX			
	3	3	SE Guided Elective	SE/CS 43XX			
	3	3	SE Guided Elective	SE/CS 43XX			
	3	3	Prof & Tech Communication	ECS 3390			
	53						

REMAINING CORE CURRICULUM

3		3,6	Communication (Core: 010)	RHET 1302			
3		3,6	Government/ Political Science (Core: 070)	GOVT 2305			
3		3,6	Government/ Political Science (Core: 070)	GOVT 2306			
3		3,6	American History (Core: 060)	click to view options			
3		3,6	American History (Core: 060)	click to view options			
3		3,6	Language, Philosophy and Culture (Core: 040)	click to view options			
3		3,6	Creative Arts (Core: 050)	click to view options			
3		3,6	Social Behavioral Science (Core: 080)	click to view options			
24							

ELECTIVES (4 Hours)

3		3,6	Free Elective				
1		3,6	Free Elective				
0		4	Freshmen Seminar	UNIV 1010			
0		5	Core Curriculum Assessment	UNIV 2020			
4							
70	53						

Total Hours _____ **123 hours required for graduation. Must include 51 hours as Upper Division.*****

NOTES	1. Major Requirement: Must earn a C or better to receive credit. 2. Must earn a C- or better to receive credit. 3. Must earn a D- or better to receive credit.
	4. Incoming freshmen (FTIC) must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshmen seminar course. Transfer students may be required to complete an additional upper level (3000 or 4000) CS/SE course substitution.
	5. All students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
	6. Most lower division (LD) coursework can be taken at a community college and transferred. See the online transfer plan for course equivalents.
	* Included in Major GPA
	*** Must have a minimum cumulative 2.0 GPA in all UTD coursework and a cumulative 2.0 GPA in all Major requirements to graduate. Students must also complete 45 hours in residence and complete 24 of the last 30 hours at UTD. No off-campus courses in the last semester allowed.