

**B.S. in Mechanical Engineering (2019 – 2020 Catalog)**

Advisor: \_\_\_\_\_  
 \_\_\_ Fast Track  
 \_\_\_ Minor  
 \_\_\_ Dbl Major/Degree

Other: \_\_\_\_\_

Student \_\_\_\_\_ UTD ID \_\_\_\_\_

**MAJOR PREPARATORY REQUIREMENTS**

LD	UD	NTS	COURSE TITLE	COURSE #	GRADE	SEM	INFO
1		1,7	Intro to Engineering and CS	ECS 1100			
1		1	Intro to Mechanical Engineering I	MECH 1100			
2		1	Intro to Mechanical Engineering II	MECH 1208			
3		1,4	Intro to Programming	CS 1325			
3		1	Statics	MECH 2310			
3		1	Mechanics of Materials	MECH 2320			
1		1	Mechanics of Materials Laboratory	MECH 2120			
3		1	Dynamics	MECH 2330			
3		1	Linear Algebra for Engineers	ENGR 2300			
4		1,2,3	Calculus I	MATH 2414 or 2417			
4		1,2,3	Calculus II	MATH 2415 or 2419			
4		1	Differential Equations w/ Applications	MATH 2420			
3		1,2	Mechanics	PHYS 2325			
1		1,2	Physics Laboratory I	PHYS 2125			
3		1,2	Electromagnetism and Waves	PHYS 2326			
1		1	Physics Laboratory II	PHYS 2126			
3		1	General Chemistry I	CHEM 1311			
1		1	General Chemistry Lab I	CHEM 1111			
44							

**MAJOR CORE REQUIREMENTS\* (\*Courses in this block used to calculate major GPA)**

	3	1	Advanced Engineering Math	ENGR 3300*			
	3	1	Computer Aided Design	MECH 3305*			
	1	1	Computer Aided Design Laboratory	MECH 3105*			
	3	1	Thermodynamics	MECH 3310*			
	3	1	Fluid Mechanics	MECH 3315*			
	1	1	Fluid Mechanics Laboratory	MECH 3115*			
	3	1	Heat Transfer	MECH 3320*			
	1	1	Heat Transfer Laboratory	MECH 3120*			
	3	1	Probability Theory & Statistics	ENGR 3341*			
	3	1	Kinematics and Dynamics of Mechanical Systems	MECH 3350*			
	1	1	Kinematics and Dynamics Laboratory	MECH 3150*			
	3	1	Design of Mechanical Systems	MECH 3351*			
	3	1	Systems and Controls	MECH 4310*			
	1	1	Systems and Controls Laboratory	MECH 4110*			
	3	1	Senior Design Project I	MECH 4381*			
	3	1	Senior Design Project II	MECH 4382*			
	3	1,9	MECH Prescribed Elective	MECH XXXX*			
	3	1	MECH Prescribed Elective	MECH 33XX*/43XX*			
	3	1	MECH Prescribed Elective	MECH 33XX*/43XX*			
	3	1	MECH Prescribed Elective	MECH 33XX*/43XX*			
	3	1,2	Social Issues & Ethics in Sci & Tech	ECS 2361*			
	3	1,2	Prof & Tech Communication	ECS 3390*			
3	53						

**REMAINING CORE CURRICULUM\*\***

3		1	Rhetoric	RHET 1302			
3			American National Government	GOVT 2305			
3			State and Local Government	GOVT 2306			
3		4	US History Survey to Civil War (Core: 060)	HIST 1301			
3		4	US History Survey from Civil War (Core: 060)	HIST 1302			
3		4	Exploration of the Humanities (Core: 040)	HUMA 1301			
3		4	Exploration of the Arts (Core: 050)	ARTS 1301			
21							

**ELECTIVES (6 Hours - Requires Approval from Advisor)**

3		5,6,9	Free Elective				
3		5,6	Free Elective				
0		7	Freshmen Seminar	UNIV 1010			
0		8	Core Curriculum Assessment	UNIV 2020			
3							

74 53 **Total Hours** \_\_\_\_\_ **127 hours required for graduation. Must include minimum 51 hours as Upper Division.\*\*\***

**NOTES**

1. Major requirement. Must earn C- or better to receive credit.	2. Course meets both major and CORE requirement.
3. Must take Math 2413/2414/2415 <b>or</b> Math 2417/2419.	4. Other course options available. See advisor for details.
5. A maximum of 3 PHIN credits is allowed on any UTD degree plan.	6. Lower or upper division courses may count as free electives.
7. Incoming freshmen (FTIC) must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshmen seminar course.	
8. All students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.	
9. Students taking MECH 2340 for prescribed elective credit must take at least one hour of upper division elective credit to earn 51 hours of UD credit.	
*** 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.	