

****DRAFT**B.S. in MECHANICAL ENGINEERING (2022 - 2023 Catalog)**

Student _____

UTD ID _____

MAJOR PREPARATORY REQUIREMENTS*

LD	UD	NTS	COURSE TITLE	COURSE #	GRADE	SEM	INFO
1		1,5,7	Intro to Engineering and CS	ECS 1100			
1		1,5	Intro to Mechanical Engineering I	MECH 1100			
2		1,5	Intro to Mechanical Engineering II	MECH 1208			
3		1,5	Intro to Programming	CS 1325			
3		1,5	Statics	MECH 2310			
3		1,5	Mechanics of Materials	MECH 2320			
1		1,5	Mechanics of Materials Laboratory	MECH 2120			
3		1,5	Dynamics	MECH 2330			
3		1,5	Linear Algebra for Engineers	ENGR 2300			
4		1,2,3,5	Integral Calculus or Calculus I	MATH 2414 or 2417			
4		1,2,3,5	Calculus of Several Variables or Calculus II	MATH 2415 or 2419			
4		1,5	Differential Equations w/ Applications	MATH 2420			
3		1,2,5	Mechanics	PHYS 2325			
1		1,2,5	Physics Laboratory I	PHYS 2125			
3		1,2,5	Electromagnetism and Waves	PHYS 2326			
1		1,5	Physics Laboratory II	PHYS 2126			
3		1,5	General Chemistry I	CHEM 1311			
1		1,5	General Chemistry Lab I	CHEM 1111			

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MAJOR CORE REQUIREMENTS*

	3	1	Advanced Engineering Math	ENGR 3300			
	3	1	Probability Theory & Statistics	ENGR 3341			
	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	System Dynamics Modeling and Analysis	MECH 3340			
	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	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	Prof & Tech Communication	ECS 3390			

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REMAINING CORE CURRICULUM

3		1,5	Communication (Core: 010)	RHET 1302			
3		5	Government/ Political Science (Core: 070)	GOVT 2305			
3		5	Government/ Political Science (Core: 070)	GOVT 2306			
3		5	American History (Core: 060)	click to view options			
3		5	American History (Core: 060)	click to view options			
3		5	Language, Philosophy and Culture (Core: 040)	click to view options			
3		5	Creative Arts (Core: 050)	click to view options			
3		5	Social Behavioral Science (Core: 080)	click to view options			

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ELECTIVES (3 Hours)

3		5	Free Elective or Math 2413 ^{1,2}				
0		3	Freshmen Seminar	UNIV 1010			
0		4	Core Curriculum Assessment	UNIV 2020			

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Total Hours _____ 127 hours required for graduation. Must include 51 hours as Upper Division.***

NOTES	1. Major requirement. Must earn C- or better to receive credit.	2. Course meets both Major and Core requirements.	* Included in Major GPA
	3. 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.		
	4. All students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.		
	5. Most lower division (LD) coursework can be taken at a community college and transferred. See the online transfer plan for course equivalents.		
	***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.		