

B.S. in BIOMEDICAL ENGINEERING (2016 – 2018 Catalog)

Student _____ Advisor _____
 UTD ID Number _____ NET ID _____ Date of Review _____

MAJOR PREPARATORY REQUIREMENTS

LD	UD	NTS	COURSE TITLE	COURSE #	GRADE	SEM	INFO
3		1	Introduction to Programming for Biomedical Engrs	CS 1324			
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	Physics Laboratory I	Phys 2125			
3		1,2	Electromagnetism and Waves	Phys 2326			
1		1	Physics Laboratory II	Phys 2126			
3		1,4	General Chemistry for Engineers	Chem 1301			
3		1,4	Introductory Organic Chemistry for Engineers	Chem 2324			
3		1	Intro to Modern Biology I	Biol 2311			
1		1	Intro to Modern Biology Workshop I	Biol 2111			
2		1	Introductory Biology Laboratory	Biol 2281			
35							

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

1		1,5	Introduction to Engineering and Computer Science	ECS 1100*			
1		1	Introduction to Bioengineering I	BMEN 1100*			
2		1	Introduction to Bioengineering II	BMEN 1208*			
3		1	Linear Algebra for Engineers	ENGR 2300*			
3		1	Statics	BMEN 2320*			
	3	1	Advanced Engineering Math	ENGR 3300*			
	3	1	Signals and Systems	EE 3302*			
	1	1	Signals and Systems Lab	EE 3102*			
	3	1	Electrical & Electronic Circuits in BMEN	BMEN 3320*			
	1	1	Biomedical Circuits & Instrumentation Lab	BMEN 3120*			
	3	1	Engineering Physiology of the Human Body	BMEN 3330*			
	1	1	Engineering Physiology Lab	BMEN 3130*			
	3	1	Probability Theory & Statistics	ENGR 3341*			
	3	1	Biomedical Component & System Design	BMEN 3350*			
	1	1	Biomedical Engineering Lab	BMEN 3150*			
	3	1	Thermodynamics OR Thermodynamics & Physical Chemistry in Biomedical Engineering	BMEN 3360* OR BMEN 3315*			
	3	1	Feedback Systems in Biomedical Engineering	BMEN 4310*			
	1	1	Biomedical Feedback Systems Lab	BMEN 4110*			
	3	1	Biomaterials and Medical Devices	BMEN 4360*			
	3	1	Senior Design Project I	BMEN 4388*			
	3	1	Senior Design Project II	BMEN 4389*			
	3	1	Major Prescribed Elective	BMEN 33XX/43XX*			
	3	1	Major Prescribed Elective	BMEN 33XX/43XX*			
	3	1	Major Prescribed Elective	BMEN 33XX/43XX*			
	3	1	Major Prescribed Elective	BMEN 33XX/43XX*			
	3	1,2	Social Issues and Ethics in CS & E	ECS 3361*			
	3	1,2	Professional & Technical Communication	ECS 3390*			
10	56						

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	Hist 1301			
3		4	US History Survey From Civil War	Hist 1302			
3		4	Exploration of the Humanities	Huma 1301			
3		4	Exploration of the Arts	Arts 1301			
21							

ELECTIVES (0 Hours – Requires Approval from Advisor)

0		5	Freshman Seminar	UNIV 1010			
0	0						
66	56	Total Hours _____		122 hours required for graduation. Must include minimum 51 hours as Upper Division.***			

NOTES

1. Major requirement. Must earn C- or better.*	2. Course meets both major and CORE requirement.
3. Must take Math 2413/2414/2415 or Math 2417/2419.	4. Other course options available. See advisor for details.
5. Incoming freshmen (FTIC) must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshmen seminar course.	
**All students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.	
*** 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.	