Bachelor of Science – Engineering Leadership
Degree Plan - Biomedical Engineering Sequence (checklist)

2017 & 2018

Catalog: 2017-2018 & 2018-2019
Expires: 08/01/2024 & 08/01/2025

Last Name _____ First Name _____ M.I. _____

UTEP ID _____

NOTE: Overall GPA ≥ 2.0 AND In-Major GPA ≥ 2.0 REQUIRED for graduation

A Core Curriculum (45 SCH) (minimum of "C" grade required)		Semester Completed	Final Grade	SCH	Sub #
1 Communication (6 credit hours required)					
RWS 1301*	Rhetoric and Composition I				
RWS 1302*	Rhetoric and Composition II				
2 Mathematics (4)					
MATH 1411*	Calculus I				
3 Life and Physical Sciences (8)					
PHYS 2420*	Introductory Mechanics				
PHYS 2421*	Introductory Electromagnetism				
4 Language, Philosophy, and Culture (3)					
PHIL 2306*	Ethics*				
5 Creative Arts (3) Circle the one you chose:					
ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*					
6 American History (6)					
HIST 1301*	History of the U.S. to 1865				
HIST 1302*	History of the U.S. since 1865				
7 Government/Political Science (6)					
POLS 2310*	Introduction to Politics				
POLS 2311*	American Govt. & Politics				
8 Social and Behavioral Sciences (3)					
CE 2326*	Econ. For Engrs & Scientists				
9 Component Area Option (6)					
UNIV 1301*	Foundations of Engineering				
COMM 1302*	Business/Profession Comm				

B Foundational Math & Science (12 SCH)		Semester Completed	Final Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2313*	Calculus III				
MATH 2326*	Differential Equations				
CHEM 1305*	General Chemistry				

SUBSTITUTIONS** (add lines as necessary)			
Sub #	Course on degree plan to substitute	Institution where course was taken	Course as it appears on UTEP Transcript
example	EL 1302	other university	ENGR 13TR
1			
2			
3			
4			

C Engineering Leadership Coursework (28 SCH)		Semester Completed	Final Grade	SCH	Sub #
EL 1405[a]	Fundamentals of Eng. Leadership and Graphics				
EL 1302*	Intro to Eng. Design & Leadership				
EL 3003	Professional Practice I				
EL 3005	Professional Practice II				
EL 2301*	Modeling and Simulation				
EL 3302*	Engineering Measurements				
EL 3304*	Engineering Design: Products to People				
EL 3331*	Engineering Design: People to Products				
EL 3373[b]	Engineering Probability & Stat. Models				
EL 4395*	Capstone Design I: Definition & Exploration				
EL 4396*	Capstone Design II: Development & Evaluation				

D Biomedical Engineering Sequence Requred Courses (22 SCH)		Semester Completed	Final Grade	SCH	Sub #
MME 2303	Intro to Materials Sci & Engrg				
MME 2434	Mechanics of Materials				
CE 2377	Electro Mechanic Systems				
CE 2338	Mechanics II (Dynamics)				
MECH 2311	Intro to Thermal Fluid Science				
BME 3303	Fundamentals of BME I				
BME 3305	Fundamentals of BME II				

E Major: Concentration Courses (12 SCH) for Biomedical Engineering Sequence		Semester Completed	Final Grade	SCH	Sub #
BIOL 1305 & BIOL 1107	General Biology and Topics in Study of Life I				
BIOL 2313 & BIOL 2113	Human Anat/Physiology II and Human Anat/Physio Lab II				
BIOL 2311 & BIOL 2111	Human Anat/Physiology I and Human Anat/Physio Lab I				

F Upper Division Engineering Technical Electives (3 SCH) see advisor for approved courses		Semester Completed	Final Grade	SCH	Sub #
BME 33XX or BME 44XX	Eng. Technical Elective from approved list for BME Minor				

H Upper Division Math/Science Elective (3 SCH) See advisor for approved courses	Semester Completed	Final Grade	SCH	Sub #
BIOL, CHEM or CBCH course from aprroved list for BME Minor				

Total Hours	125

NOTES:

* -- C or better required

** -- requires submission of official substitution form.

a -- CE 1205 may be substituted upon pre-approval.

b -- IE 3373 may be substituted.

APPROVALS:	
ADVISOR	DATE
CHAIR	DATE

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