

Bachelor of Science – Engineering Innovation and Leadership Degree Plan - Biomedical Engineering Concentration (checklist)

2024

Catalog: 2023-2024

Expires: 08/01/2030

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 2320*	Introductory Mechanics				
PHYS 2120*	Laboratory for PHYS 2320				
PHYS 2321*	Introductory Electromagnetism				
PHYS 2121*	Laboratory for PHYS 2321				
4 Language, Philosophy, and Culture (3)					
PHIL 2306*	Ethics				
5 Creative Arts (3) Select and circle one:					
ART 1300*, ARTH 1305*, 1306*, CHIC 1311*, DANC 1304*, FILM 1390*, MUSL 1324*, 1327*, 2321*, 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) -- all 6 SCH must be completed at the same institution					
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)					
EL 1301*	Eng. Innovation & Leadership				
CS 1320* ^a	Computer Programming Sci. / Engr.				

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

H Upper Division Math/Science Elective (3 SCH) for BME		Semester Completed	Final Grade	SCH	Sub #

SUBSTITUTIONS**				
#Sub	Course on degree plan to substitute	Institution where course was	Name of Course as it appears on UTEP Transcript	Course as it appears on UTEP Transcript
ex	EL 1402	Other		ENGR 14TR
1				
2				
3				
4				

C Engineering Leadership Coursework (25 SCH)		Semester Completed	Final Grade	SCH	Sub #
EL 1402*	Fund of Leadership, Design and Graphics				
EL 2301*	Modeling and Simulation				
EL 3302*	Engineering Measurements				
EL 3003*	Professional Practice I				
EL 3005*	Professional Practice II				
EL 3331*	Engineering Design: People to Products				
EL 3332*	Engineering Entrepreneurship: Products to People				
EL 3373* or IE 3373 or EE 3384	Engineering Probability & Stat. Models Engr Probability & Stat Models				
EL 4395*	Capstone Design I: Definition & Exploration				
EL 4396*	Capstone Design II: Development & Evaluation				
D Biomedical Concentration Required Courses (16 SCH)		Semester Completed	Final Grade	SCH	Sub #
CE 2377 or IE 2377 or MECH 2342	Electro Mechanical Systems				
CE 2338 or MECH 2342	Mechanics II (Dynamics)				
MECH 2311	Intro to Thermal Fluid Science				
MME 2303	Intro to Materials Sci & Engrng				
MME 2434	Mechanics of Materials				

E Emphasis Courses (14 SCH) for Biomedical Concentration		Semester Completed	Final Grade	SCH	Sub #
BIOL 1305	General Biology & Topics in Study of Life I w Lab				
BIOL 1107					
BIOL 2311 ^c	Human Anat / Physiology I w Lab				
BIOL 2111					

F Biomedical Technical Electives(10 SCH) see advisor for approved courses		Semester Completed	Final Grade	SCH	Sub #
BME 3303	Fundamentals of BME I				
BME 3305	Fundamentals of BME II				

BSEL Total Hours 125

a--COMM 1302 is required for CS Concentration
c--BIOL 2313 and BIOL 2113 may be substituted.

* -- C or better required

** -- requires submission of official substitution form available at
<https://www.utep.edu/engineering/student-resources/student-resources-forms.html>

APPROVALS:	
ADVISOR _____	DATE _____
CHAIR _____	DATE _____