



## E-Lead Advising Form

**Engineering Innovation and Leadership**

**(915) 747-8427 | eelfrontdesk@utep.edu | Engineering Building, Room E-230**

Student Name:	
UTEP ID#	
UTEP email:	
Cell Phone #:	

<u>Status:</u> <input type="checkbox"/> Freshman <input type="checkbox"/> Sophomore <input type="checkbox"/> Junior <input type="checkbox"/> Senior <input type="checkbox"/> Transfer Student, from EPCC	<u>Intended Concentration:</u> <input type="checkbox"/> Engineering Innovation <input type="checkbox"/> Biomedical Engineering (BME) <input type="checkbox"/> Civil Engineering (CE) <input type="checkbox"/> Computer Science (CS) <input type="checkbox"/> Electrical Engineering (EE) <input type="checkbox"/> Mechanical Engineering <input type="checkbox"/> Metallurgical & Materials Engineering (MME)	<u>Priorities / Time Commitments:</u> _____ School Hours (in class) _____ Study Hours (out of class) _____ Work Hours _____ Other <u>Explanation:</u>  
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**RECOMMENDED COURSES**

Notes	Subject	Course #	CRN	Course Title/ Description/ Notes	Term
EXAMPLE	MATH	1508	12345	Calculus ----- EXAMPLE	Fall 2019
EXAMPLE	UNIV	1301	54321	Foundation of Engineering ----- EXAMPLE	Fall 2019

**FOCUS OF EMPHASIS COURSES**


Advisor Comments:

Transfer Credit = TC  
 AP Credit = AP

**OFFICE USE ONLY**

<u>APPROVAL:</u> Advisor: Date: Signature:	<input type="checkbox"/> LD Advising Hold Removed: _____ <input type="checkbox"/> Other Hold Removed: _____  Registered By _____
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# Bachelor of Science – Engineering Innovation and Leadership

## Degree Plan - Biomedical Engineering Concentration (checklist)

2020

Catalog: 2020-2021

Expires:

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 #
<b>1 Communication (6 credit hours required)</b>					
RWS 1301*	Rhetoric and Composition I			3	
RWS 1302*	Rhetoric and Composition II			3	
<b>2 Mathematics (4)</b>					
MATH 1411*	Calculus I			4	
<b>3 Life and Physical Sciences (8)</b>					
PHYS 2420*	Introductory Mechanics			4	
PHYS 2421*	Introductory Electromagnetism			4	
<b>4 Language, Philosophy, and Culture (3)</b>					
PHIL 2306*	Ethics*			3	
<b>5 Creative Arts (3)</b> Circle the one you chose:					
ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*				3	
<b>6 American History (6)</b>					
HIST 1301*	History of the U.S. to 1865			3	
HIST 1302*	History of the U.S. since 1865			3	
<b>7 Government/Political Science (6)</b>					
POLS 2310*	Introduction to Politics			3	
POLS 2311*	American Govt. & Politics			3	
<b>8 Social and Behavioral Sciences (3)</b>					
CE 2326*	Econ. For Engrs & Scientists			3	
<b>9 Component Area Option (6)</b>					
UNIV 1301*	Foundations of Engineering			3	
CS 1320*	Comp Programming for Sci/Engr			3	

B Foundational Math & Science (12 SCH)		Semester Completed	Final Grade	SCH	Sub #
CHEM 1305*	General Chemistry			3	
MATH 1312*	Calculus II			3	
MATH 2313	Calculus III			3	
MATH 2326*	Differential Equations			3	

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 131R
1			
2			
3			
4			

C Engineering Leadership Coursework (28 SCH)		Semester Completed	Final Grade	SCH	Sub #
EL 1405 <sup>a</sup>	Fundamentals of Eng. Leadership and Graphics			4	
EL 1302*	Intro to Eng. Design & Leadership			3	
EL 3003	Professional Practice I			0	
EL 3005	Professional Practice II			0	
EL 2301*	Modeling and Simulation			3	
EL 3302*	Engineering Measurements			3	
EL 3331*	Engineering Design: People to Products			3	
EL 3332*	Engineering Design: Products to People			3	
EL 3373 <sup>b</sup>	Engineering Probability & Stat. Models			3	
EL 4395*	Capstone Design I: Definition & Exploration			3	
EL 4396*	Capstone Design II: Development & Evaluation			3	

D Biomedical Engineering Concentration Required Courses (22 SCH)		Semester Completed	Final Grade	SCH	Sub #
BME 3303 & MME 4171	Fundamentals of BME I Fund. of BME I Lab			4	
BME 3305	Fundamentals of BME II			3	
CE 2377	Electro Mechanic Systems			3	
CE 2338	Mechanics II (Dynamics)			3	
MECH 2311	Intro to Thermal Fluid Science			3	
MME 2303	Intro to Materials Sci & Engrg			3	
MME 2434	Mechanics of Materials			4	

E Major: Emphasis Courses (12 SCH) for Biomedical Engineering Concentration		Semester Completed	Final Grade	SCH	Sub #
BIOL 1305 & BIOL 1107	General Biology and Topics in Study of Life I			4	
BIOL 2311 & BIOL 2111	Human Anat/Physiology I and Human Anat/Physio Lab I OR			4	
BIOL 2313 & BIOL 2113	Human Anat/Physiology II and Human Anat/Physio Lab II			3	

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			3	

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 approved list for BME Minor				3	

**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

**University of Texas at El Paso**  
 Engineering Education & Leadership Dept.  
 Phone: (915) 747-8427 || eel.utep.edu

**Semester Breakdown**

Year	Fall Semester			Hrs.	Spring Semester			Hrs.
Year One								
Total Semester Hours					Total Semester Hours			
Year Two								
Total Semester Hours					Total Semester Hours			
Year Three								
Total Semester Hours					Total Semester Hours			
Year Four								
Total Semester Hours					Total Semester Hours			
	Summer 1				Summer 2			
Total 125 Credit Hrs.								

Student Notes: \_\_\_\_\_

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Advisor Notes: \_\_\_\_\_

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