



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> ☐ Freshman ☐ Sophomore ☐ Junior ☐ Senior ☐ Transfer Student, from EPCC	<u>Intended Concentration:</u> ☐ Engineering Innovation ☐ Biomedical Engineering (BME) ☐ Civil Engineering (CE) ☐ Computer Science (CS) ☐ Electrical Engineering (EE) ☐ Mechanical Engineering ☐ 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:	☐ LD Advising Hold Removed: _____ ☐ Other Hold Removed: Registered By _____
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Bachelor of Science – Engineering Innovation and Leadership Degree Plan - Mechanical 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 #
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				
CS 1320*	Comp. Programming for Sci/Engr				

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 (29 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 3331*	Engineering Design: People to Products				
EL 3332*	Engineering Design: Products to People				
EL 3373 ^b	Engineering Probability & Stat. Models				
EL 4395*	Capstone Design I: Definition & Exploration				
EL 4396*	Capstone Design II: Development & Evaluation				
EL 4191*	Independent Studies				

D Mechanical Engineering Concentration Required Courses (15 SCH)		Semester Completed	Final Grade	SCH	Sub #
MECH 1321	Mechanics I - Statics				
MECH 2311	Intro to Thermal-Fluid Scienc				
MECH 2322	Mechanics of Materials				
MECH 2340	Mechanics II - Dynamics				
MECH 2103	Engineering Computations				

E Major: Emphasis Courses (12 SCH) for Mechanical Engineering Concentration		Semester Completed	Final Grade	SCH	Sub #

F Upper Division Engineering Technical Electives in CE (9 SCH) see advisor for approved courses		Semester Completed	Final Grade	SCH	Sub #
MECH 3312	Thermodynamics				
MECH 3354	Fluid Mechanics				
MECH 4315	Heat Transfer				
MECH					

H Upper Division Math/Science Elective (3 SCH) See advisor for approved courses		Completed	Grade	SCH	#
MATH 3323	Matrix Algebra				

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: _____

Advisor Notes: _____
