

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

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

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 (25 SCH)		Semester Completed	Final Grade	SCH	Sub #
EL 1402	Fundamentals of Eng. Leadership and Graphics				
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 <sup>a</sup>	Engineering Probability & Stat. Models				
EL 4395*	Capstone Design I: Definition & Exploration				
EL 4396*	Capstone Design II: Development & Evaluation				

D Engineering Innovation Concentration (16 SCH)		Semester Completed	Final Grade	SCH	Sub #
CE 2377 <sup>c</sup>	Electro Mechanic Systems				
CE 2338	Mechanics II (Dynamics)				
MECH 2311 <sup>b</sup>	Intro to Thermal Fluid Science				
MME 2303	Intro to Materials Sci & Engrg				
MME 2434	Mechanics of Materials				

E Emphasis Courses (15 SCH) see advisor for list of concentrations & approved courses within concentration.		Semester Completed	Final Grade	SCH	Sub #

F Upper Division Engineering Technical Elective (9 SCH) see advisor for approved courses		Semester Completed	Final Grade	SCH	Sub #

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

<b>Total Hours</b>	<b>125</b>
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- NOTES:**
- \* -- C or better required
  - \*\* -- requires submission of official substitution form.
  - a -- IE 3373 may be substituted.
  - b -- MECH 2311 may be substituted.
  - c -- IE 2377 and MECH 2342 may be substituted.

APPROVALS:	
ADVISOR	DATE
CHAIR	DATE

Fill in courses through graduation  
 You do not have to use all years; only those you need

See semester breakdown for guide

**The University of Texas at El Paso**  
 Department of Engineering Education and Leadership  
 Phone: (915) 747-8427 || eel.utep.edu  
**Semester Breakdown**

Year	subject number	Fall Semester	Hrs.	Spring Semester	Hrs.	Summer Semester	Hrs.
ONE							
<b>Total Semester Hours</b>				<b>Total Semester Hours</b>			
TWO							
<b>Total Semester Hours</b>				<b>Total Semester Hours</b>			
THREE							
<b>Total Semester Hours</b>				<b>Total Semester Hours</b>			
FOUR							
<b>Total Semester Hours</b>				<b>Total Semester Hours</b>			
FIVE							
<b>Total Semester Hours</b>				<b>Total Semester Hours</b>			

Total 125 Credit Hrs.

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

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## 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** *(the courses you plan to take this semester)*

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

**FOCUS OF MAJOR 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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