



CURRICULUM GUIDE WORKSHEET

Engineering BS in Engineering/EE Concentration

Name: _____

Catalogue Year: _____

Minor (optional): _____

Freshman (Fall)

<input checked="" type="checkbox"/> Course Prefix	Course Name	Credits	Notes
<input type="checkbox"/> CHE 105/111	General Chemistry/Fundamentals of General Chemistry	4	_____
<input type="checkbox"/> EGR 101	Introduction to Engineering Design and Analysis	1	_____
<input type="checkbox"/> EGR 105	Solid Modeling	1	_____
<input type="checkbox"/> ENG 111	Written Composition I	3	_____
<input type="checkbox"/> HIS 101	World Civilization to the 18 th Century	3	_____
<input type="checkbox"/> MAT 211	Calculus I	4	_____
		16	

☐ Review Registration on Ellucian/Self-Service

Freshman (Spring)

<input checked="" type="checkbox"/> Course Prefix	Course Name	Credits	Notes
<input type="checkbox"/> EGR 109	Introduction to MATLAB and Computer Programming	2	_____
<input type="checkbox"/> ENG 112	Written Composition II	3	_____
<input type="checkbox"/> MAT 212	Calculus II	4	_____
<input type="checkbox"/> PEWS 100	Fitness for Health	1	_____
<input type="checkbox"/> PHY 231	Physics I	5	_____
		15	

Sophomore (Fall)

<input checked="" type="checkbox"/> Course Prefix	Course Name	Credits	Notes
<input type="checkbox"/> EGR 209	Survey of Computational Engineering	1	_____
<input type="checkbox"/> EGR 240	Mechanical Engineering Fundamentals I: Mechanics	3	_____
<input type="checkbox"/> EGR 261	Electrical Engineering Fundamentals I: Digital Logic	3	_____
<input type="checkbox"/> MAT 213	Calculus III	4	_____
<input type="checkbox"/> PHY 232	Physics II	5	_____
		16	

Sophomore (Spring)

<input checked="" type="checkbox"/> Course Prefix	Course Name	Credits	Notes
<input type="checkbox"/> COM 112/235	Public/Interpersonal Communication	3	_____
<input type="checkbox"/> EGR 210	Materials Engineering	3	_____
<input type="checkbox"/> EGR 250	ME Fundamentals II: Thermodynamics	3	_____
<input type="checkbox"/> EGR 262	EE Fundamentals II: Electric and Electronic Circuits	4	_____
<input type="checkbox"/> MAT 314	Differential Equations	3	_____
		16	

☐ Declare minor with Dean, Arts & Sciences (optional)

You must take an advisor-approved upper-level course from EGR, MAT, or PHY, or an advisor-approved course from CSC. The course must be at least 3 hours. We have scheduled the course in the fall of the senior year in this curriculum map, but you will need to work with your advisor to determine actual scheduling since some courses are taught in alternating years. You may need to adjust placement of core courses.

Junior (Fall)

X	Course Prefix	Course Name	Credits	Notes
<input type="checkbox"/>	EGR 342	Engineering Experimental Methods	3	
<input type="checkbox"/>	EGR 360	Modeling and Analysis of Linear and Dynamical Systems	3	
<input type="checkbox"/>	EGR 365	Electromagnetics	3	
<input type="checkbox"/>	EGR 375	Power Systems and Electrical Machines	3	
<input type="checkbox"/>	HIS 102	World Civilization from the 18 th Century	3	
			15	

☐ Apply for Junior Audit after completing 72 credit hours

Junior (Spring)

X	Course Prefix	Course Name	Credits	Notes
<input type="checkbox"/>	EGR 330	Engineering Economy	3	
<input type="checkbox"/>	EGR 391	Major Project Design Preparation	1	
<input type="checkbox"/>	EGR 426	Signals & Systems	3	
<input type="checkbox"/>	EGR 475	Control Theory and Design	4	
<input type="checkbox"/>	EEC Elective		3	
			14	

Senior (Fall)

X	Course Prefix	Course Name	Credits	Notes
<input type="checkbox"/>	CHR 111	Old Testament Survey	3	
<input type="checkbox"/>	EGR 405	Electronic Circuit Analysis and Design	4	
<input type="checkbox"/>	EGR 491	Major Project Design I	2	
<input type="checkbox"/>	ENG 2XX	World Literature ¹	3	
<input type="checkbox"/>	General Core	Social and Behavioral Sciences ²	3	
			15	

☐ Apply for Graduation

Senior (Spring)

X	Course Prefix	Course Name	Credits	Notes
<input type="checkbox"/>	ART 210	Arts in Western Civilization	3	
<input type="checkbox"/>	CHR 112	New Testament Survey	3	
<input type="checkbox"/>	EGR 361	Digital Electronics	3	
<input type="checkbox"/>	EGR 492	Major Project Design II	3	
<input type="checkbox"/>	EGR 498	Engineering Seminar	1	
<input type="checkbox"/>	MAT 315	Linear Algebra ³	3	
			16	

1. English Elective: Choose ENG 201 or ENG 202.

2. General Core, Social and Behavioral Sciences: Select ONE from ECO 211, ECO 212, HON 225, PHL 240, PSC 211, PSY 213, SOC 211.

3. Math elective: Choose MAT 315 or MAT 208.

ADDITIONAL NOTES:

- The BSE degree requires a total of 123 hours, with a minimum of 36 upper-level (300 and 400 level) hours.

- This curriculum guide is to be used for students entering in an **even-odd** academic year (e.g. 2024-2025).