



CURRICULUM GUIDE WORKSHEET

Engineering BS in Engineering/EE Concentration

Name: _____

Catalogue Year: _____

Minor (optional): _____

Freshman (Fall)

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

☐ Review Registration on Ellucian/Self-Service

Freshman (Spring)

☒ Course Prefix	Course Name	Credits	Notes
☐ EGR 109	Introduction to MATLAB and Computer Programming	2	_____
☐ ENG 112	Written Composition II	3	_____
☐ MAT 212	Calculus II	4	_____
☐ PEWS 100	Fitness for Health	1	_____
☐ PHY 231	Physics I	5	_____
		15	

Sophomore (Fall)

☒ Course Prefix	Course Name	Credits	Notes
☐ EGR 209	Survey of Computational Engineering	1	_____
☐ EGR 240	Mechanical Engineering Fundamentals I: Mechanics	3	_____
☐ EGR 261	Electrical Engineering Fundamentals I: Digital Logic	3	_____
☐ MAT 213	Calculus III	4	_____
☐ PHY 232	Physics II	5	_____
		16	

Sophomore (Spring)

☒ Course Prefix	Course Name	Credits	Notes
☐ COM 112/235	Public/Interpersonal Communication	3	_____
☐ EGR 210	Materials Engineering	3	_____
☐ EGR 250	ME Fundamentals II: Thermodynamics	3	_____
☐ EGR 262	EE Fundamentals II: Electric and Electronic Circuits	4	_____
☐ 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)

☒ Course Prefix	Course Name	Credits	Notes
☐ EGR 342	Engineering Experimental Methods	3	
☐ EGR 360	Modeling and Analysis of Linear and Dynamical Systems	3	
☐ EGR 375	Power Systems and Electrical Machines	3	
☐ EGR 405	Electronic Circuit Analysis and Design	4	
☐ HIS 102	World Civilization from the 18 th Century	3	
		16	

☐ Apply for Junior Audit after completing 72 credit hours

Junior (Spring)

☒ Course Prefix	Course Name	Credits	Notes
☐ EGR 330	Engineering Economy	3	
☐ EGR 361	Digital Electronics	3	
☐ EGR 391	Major Project Design Preparation	1	
☐ EGR 475	Control Theory and Design	4	
☐ MAT 315	Linear Algebra ¹	3	
		14	

Senior (Fall)

☒ Course Prefix	Course Name	Credits	Notes
☐ CHR 111	Old Testament Survey	3	
☐ EGR 365	Electromagnetics	3	
☐ EGR 491	Major Project Design I	2	
☐ ENG 2XX	World Literature ²	3	
☐ General Core	Social and Behavioral Sciences ³	3	
		14	

☐ Apply for Graduation

Senior (Spring)

☒ Course Prefix	Course Name	Credits	Notes
☐ ART 210	Arts in Western Civilization	3	
☐ CHR 112	New Testament Survey	3	
☐ EGR 426	Signals & Systems	3	
☐ EGR 492	Major Project Design II	3	
☐ EGR 498	Engineering Seminar	1	
☐ EEC Elective		3	
		16	

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

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

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

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 **odd-even** academic year (e.g. 2023-2024).