

**Bachelor of Science in Engineering
Four-Year Course Plan (2021-2022)**

FIRST-YEAR	FALL		SPRING	
	MATH 170: Calculus I (FM)	4	MATH 175: Calculus II	4
	ENGL 101: Introduction to College Writing	3	UF 100: Intellectual Foundations	3
	CHEM 111/111L: General Chemistry I & Lab (FN)	4	PHYS 211/211L: Physics II with Calculus and Lab (FN)	5
	ENGR 180 Communication in Design Thinking	3	Foundations of Communication (FC)	3
	Semester Total	14	Semester Total	15

SOPHOMORE	FALL		SPRING	
	MATH 275: Multivariable and Vector Calculus	4	ENGR 280: Engineering Design I	3
	ENGR 210: Engineering Statics	3	MATH 333: Differential Equations with Matrix Theory	4
	PHYS 212/212L: Physics II with Calculus and Lab (5 credits), OR CHEM 112/112L Gen Chemistry II with Lab*	4-5	CS 117: C++ for Engineers (3 credits) or CS 121: Intro to CS (4 credits)	3-4
	ME 187 Graphical Communications OR CE 286 Intro to AutoCAD for Civil Engineers	2	Social Science (E+ Pathway related choice recommended) (FS)	3
	ENGL 102: College Writing and Research	3	UF 200: Civic & Ethical Foundations	3
	Semester Total	16-17	Semester Total	16-17

JUNIOR	FALL		SPRING	
	ENGR 240: Electrical and Electronic Circuits or ECE 210: Introduction to Electrical Circuits I	3	ENGR 380: Engineering Design II	3
	MATH 360: Engineering Statistics or MATH 361: Probability and Statistics I	3	Engineering Elective	3
	Social Science (E+ Pathway related choice recommended) (FS)	3	E+ Pathway Elective (upper division)	3
	MSE 101 Introduction to Materials Engineering/MSE 245 Materials Lab	4	Engineering Elective (upper division)	3
	E+ Pathway Elective	3	Literature & Humanities (E+ Pathway related choice recommended) (FH)	3-4
	Semester Total	16	Semester Total	15-16

SENIOR	FALL		SPRING	
	E+ Pathway Electives (upper division)	9	ENGR 480: Engineering Design III (FF)	4
	Engineering Elective (upper division)	3	Engineering Elective (upper division)	9
	Visual and Performing Arts (E+ Pathway related choice) (FA)	3	E+ Pathway Elective (upper division)	3
	Semester Total	15	Semester Total	16

TOTAL PROGRAM CREDITS: **123-126**

* Note that PHYS 212/212L is required for ECE 210. CHEM 112/112L may be required for other upper division engineering electives. Please consult with an advisor regarding your degree goals.