

**Bachelor of Science in Engineering PLUS IDoTeach
Four-Year Course Plan (2018-19)**

FIRST-YEAR	FALL		SPRING	
	MATH 170: Calculus I (DLM)	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	4	PHYS 211/211L: Physics II with Calculus and Lab	5
	ENGR 120: Intro to Engineering (3 credits) or ENGR 130: Intro to Engineering Applications (4 credits) (FN)	3-4	STEM-ED 210: Knowing and Learning in Mathematics and Science (FS)	3
	STEM-ED 101 STEP 1: Inquiry Approaches to Teaching	1	STEM-ED 102 STEP 2: Inquiry-Based Lesson Design	1
	Semester Total	15-16	Semester Total	16

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) *	5	CS 117: C++ for Engineers (3 credits) or CS 121: Intro to CS (4 credits)	3-4
	STEM-ED 220: Perspectives on Science and Mathematics (FH)	3	ENGL 102: College Writing and Research	3
			UF 200: Civic & Ethical Foundations	3
Semester Total	15	Semester Total	16-17	

* may substitute CHEM 112/112L, however, 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.

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	ENGR Focus	3
	CE 286 Introduction to AutoCAD for Civil Engineers (2 credits) or ME 105 Mechanical Engineering Graphics (3 credits)	2-3	ED-CIFS 201: Foundations of Education (FS)	3
	MSE 245/245L: Introduction to Materials Science and Engineering & Lab	4	ENGR Focus (upper division)	3
	STEM-ED 310: Classroom Interactions	3	STEM-ED 350: Research Methods	3
	Semester Total	15-16	Semester Total	15

SENIOR	FALL		SPRING	
	Visual and Performing Arts (FA)	3	ENGR 480: Engineering Design III	4
	STEM-ED 410: Project-Based Instruction	3	STEM-ED 480: Apprentice Teaching	6
	ENGR Focus (upper division)	3	ENGR Focus (upper division)	3
	ENGR Focus (upper division)	3-4	ENGR Focus (upper division)	3
Semester Total	15-16	Semester Total	16	

TOTAL PROGRAM CREDITS: **122-126**