

Bachelor of Science in Engineering PLUS Information Technology Management Four-Year Course Plan

YEAR 1	FALL		SPRING		
	MATH 170 Calculus I (FM)	4	MATH 175 Calculus II	4	
	UF 100 Foundations of Intellectual Life	3	ENGL 101 Intro to College Writing	3	
	CHEM 111 General Chemistry I & 111L Lab	4	PHYS 211 Physics I with Calculus & 211L Lab	5	
	ENGR 120 Intro to Engineering (3) <i>or</i> ENGR 130 Intro to Engineering Applications (4)	3-4	ME 105 Mechanical Engineering Graphics (3) <i>or</i> CE 286 Intro to AutoCAD (2)	2-3	
Semester Total		14-15	Semester Total		14-15

YEAR 2	FALL		SPRING		
	MATH 275 Multivariable-Vector Calculus	4	ENGR 280 Engineering Design I	3	
	ENGR 210 Engineering Statics	3	MATH 333 Differential Eq w Matrix Theory	4	
	PHYS 212 Physics II with Calculus & 212L Lab *	5	CS 117 C++ for Engineers (3) <i>or</i> CS121 Intro to CS (4)	3-4	
	UF 200 Foundations of Ethics & Diversity	3	ECON 201 Macroeconomics (recommended FS)	3	
		3	ENGL 102 Intro College Writing and Research	3	
Semester Total		15	Semester Total		16-17

* May substitute CHEM 112/112L (4 credits). However, PHYS 212/212L is required for ECE 210. CHEM 112/112L may be required for other upper division engineering electives. See your advisor.

YEAR 3	FALL		SPRING		
	ENGR 240 Electrical and Electronic Circuits <i>or</i> ECE 210 Intro to Electrical Circuits I	3	ENGR 380 Engineering Design II (FOC)	3	
	MATH 360 Statistics <i>or</i> MATH 361 Probability and Statistics I	3	Engineering Elective	3	
	Foundations of Social Sciences Elective	3	ITM 315 Database Systems	3	
	MSE 245 Intro to Material Science Engineering 245L Lab	4	Engineering Elective (upper division)	3	
	ITM 310 Business Intelligence*	3	ITM 320 Systems Planning and Analysis	3	
	Semester Total		16	Semester Total	

YEAR 4	FALL		SPRING		
	Foundations of Humanities Elective	3-4	ENGR 480 Engineering Design III (FF)	4	
	ITM 330 Predictive Analytics	3	Engineering Elective (upper division)	3	
	ITM 435 Project Management	3	Engineering Elective (upper division)	3	
	Engineering Elective (upper division)	3	Foundations of Arts Elective	3	
	Engineering Elective (upper division)	3	ITM 497 Big Data	3	
Semester Total		15-16	Semester Total		16

TOTAL PROGRAM CREDITS: **121-125**

* ITM 310 requires either ITM 105 or demonstrated competency in MS Excel.

** Engineering Plus students must complete MATH 360 or 361 as a prerequisite for ITM 330

For the 2018-19 and 2019-20 academic years, Engineering Plus students will need department permission to enroll in ITM courses.

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Additional **alternative courses** for an Engineering Plus Pathway in Business:

Sustainability Emphasis

ECON 201 Principles of Macroeconomics (may satisfy Foundation of Social Science Req OR Pathway elective)

ECON 202 Principles of Microeconomics (may satisfy Foundation of Social Science Req OR Pathway elective)

ECON 315 Global Economic Development (S)

ECON 333 Natural Resource Economics (F)

ECON 431 Regional Economics (F)

ECON 432 Urban Economics (S)

ECON 474 Sustainability and Economic Policy (S)

General Business (blends online and face to face)

BUSBTC 301 Business Foundations I

BUSBTC 302 Business Foundations II

BUS 301 Leadership Skills⁺

HRM 305 Human Resource Management

MKTG 301 Principles of Marketing ⁺

ITM 310 Business Intelligence ⁺

⁺prerequisite required for non-business majors: ENGL 202

Supply Chain Management - Please select from courses listed in the Industrial Engineering Minor