

Undergraduate Major Map

Catalog Year: 2017
College / School: Engineering
Major: Mechanical Engineering - BS
Track / Concentration:
Career Path: Two Year Transfer

Fall Term 2017

2 Year Plan assumes:

-Student has satisfied all UCC 1000-2000 level requirements (i.e. via AA), Math & Science (MAC2311, MAC2312, MAC2313, MAP2302, PHY2048 & 2048L, PHY2049 & 2049L, CHM1045 & 1045L), EGS1006 Intro to Eng., EML2032 Programming for MEs, Eng. Drawing (Solidworks) if not completed in High School.

Term GPA: 2
Term Hours: 13
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Required Courses	EGN 3311	Statics	3	C	
Required Courses	EGN 3365	Materials Eng	3		
Engineering Sciences	EEL 3110	Circuit Analysis	3		
Engineering Sciences	EEL 3110L	Circuits Lab	1		
Mathematics and Sciences	EGM 3311	Analysis Eng Syst	3		

Spring Term 2018

Term GPA: 2
Term Hours: 14
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Required Courses	EGN 3321	Dynamics	3	C	
Required Courses	EGN 3343	Thermodynamics I	3	C	
Required Courses	EMA 3702	Mech & Mat Science	3	C	
Engineering Sciences	EIN 3390	Manuf Processes	2		
Engineering Sciences	EIN 3390L	Manuf Processes Lab	1		
Required Courses	EML 3301L	Instrumentation Lab	1		
Required Courses	EMA 3702L	Mech & Mat Sci Lab	1		

Undergraduate Major Map

Summer Term 2018

Use this semester to catch up on coursework if necessary.

Term GPA: 2
Term Hours: 9
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Required Courses	EML 3126	Transp Phenon	3		Must take in Summer A in order to take EML 4140 in Summer B.
Required Courses	EML 4140	Heat Transfer	3		Prerequisite: EML 3126 (Must be taken in Summer B)
Engineering Sciences	EGN 3613	Engineering Economy	3		

Fall Term 2018

Senior Design Project is taken in two consecutive semesters: EML 4551 (Fall 2018) and EML 4905 (Spring 2019). Both of these courses will satisfy both Global Learning Discipline Specific requirement. See Endnote

Term GPA: 2
Term Hours: 14
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Required Courses	EML 4806	Modeling Of Robots	3		
Required Courses	EML 3036	Simultn Software ME	3	C	
Required Courses	EML 3126L	Transp Pheno Lab	1		
Required Courses	EML 3500	Mech Design I	3		
Required Courses	EML 4551	Ethics Dsn Proj Org	1	C	
Required Courses	EML 4706	Des Therm Fluid Sys	3		

Spring Term 2019

Senior Design Project is taken in two consecutive semesters: EML 4551 (Fall 2018) and EML 4905 (Spring 2019). Both of these courses will satisfy both Global Learning Discipline Specific requirement. See Endnote

Term GPA: 2
Term Hours: 13
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Required Courses	EML 3222	Systems Dynamics	3		
Required Courses	EML 4501	Mech Design II	3		
Required Courses	EML 4804	Intro Mechatronics	3		
Senior Design Project	EML 4905	Senior Design Proj	3		
Required Courses	EML 4906L	Mech Lab I	1		

Undergraduate Major Map

Summer Term 2019					Term GPA: 2.33
Use this semester to catch up on coursework (if needed).					Term Hours: 9
					Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Elective with Design Content			3		See PDA to select a course from the "Elective with Design Content" list to satisfy the requirement.
Additional Electives			3		See PDA to select a course from the "Additional Electives" list to satisfy the requirement.
Additional Electives			3		See PDA to select a course from the "Additional Electives" list to satisfy the requirement.

General Requirements

2 Year plan assumes student has completed an Associates of Arts "AA" Degree from a Florida Public Institution as well as the following pre-requisite courses for the major: MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY2048L, PHY 2049, PHY 2049L, CHM 1045, CHM 1045L, EML 1533, EML 2032, EGS 1006

*Critical Indicator is the minimum grade indicated in specific courses to demonstrate proficiency and progress in major. Earning less than the minimum grade is a trigger for a conversation with advisor.

Transfer students are assumed to have completed an Associates of Arts "AA" Degree from a Florida Public Institution or completed 60 credits and the University Core Curriculum (UCC) Requirements.

GENERAL UNIVERSITY REQUIREMENTS

GLOBAL LEARNING Requirement for Transfers entering FIU Fall 2011 or later:

- Transfer Mechanical engineering students WHO MEET the University Core Curriculum (UCC) requirements prior to entering FIU will have this satisfied by the completion of the two Global Learning Discipline Specific Courses: Senior Design Projects EML 4551 and EML 4905 which are done in two consecutive semester during the student's senior year.
- Transfer students WHO DO NOT MEET University Core Curriculum (UCC) Requirements prior to entering FIU must complete:

-One Global Learning Foundation Course (to be chosen from the University Core Curriculum (UCC) list or go to <http://goglobal.fiu.edu> to get the list of the Global Learning Foundation courses) and

-One Global Learning Discipline Specific Course (this will be satisfied by the Senior Design Project EML 4905 during Senior year).

Transfer courses may not be used to meet the FIU Global Learning Requirement.

College of Engineering/Mechanical & Materials Engineering (MME) Department: Selected Requirements

GRADES: A minimum grade of a 'C' is required in every course of the Mechanical Engineering curriculum.

SENIOR DESIGN PROJECT courses (EML 4551 and EML 4905) must be taken in the last two semesters in sequence. These courses are NOT offered during the summers semesters.

This document only lists SELECTED requirements. See your Panther Degree Audit for a full list of College of Engineering and major requirements at <http://my.fiu.edu>