

**FRESHMAN**

**Pre-Engineering Courses**  
GPA 2.0 or better required

**MAC 2311** Calculus I (4)  
 MAC1114 or  MAC1147

**MAC 2312** Calculus II (4)  
 MAC 2311

**PHY 2048C** Gen Physics I (5)  
 MAC 2311  MAC 2312 (se)

**EGN 1004L** 1<sup>st</sup> Year Eng. Lab (1)

Other courses might serve as acceptable alternatives to these common course prerequisites. The current list may be found at <https://dls.fivc.org/admin-tools/common-prerequisites-manuals>

**MAC 2313** Calculus III (5)  
 MAC 2312

**CHM 1045** Gen Chemistry I (3)  
 MAC 1105

**CHM 1045L** Gen Chem Lab I (1)  
 CHM 1045 (co)

**Course Prerequisites**

CC (Computer Competency), UDW (Upper Division Writing), SIP (Scholarship in Practice) and OCCR (Oral Communication Competency) are met by satisfaction, with a C grade or better, of Mechanical Engineering courses indicated.

Students who entered the University since Fall 2018 must meet Liberal Studies in the 21<sup>st</sup> Century requirements including:  
 History  Humanities  Social Science  
 X  Y  IFS (W)  IW  ETHICS  CMCS

**LIBERAL STUDIES**

**ENC 1101** English I (3)

**ENC 2135** Research, Genre & Context (3)

His /Soc Sci CORE AMH 2020 or POS1041 (3)

Humanities CORE (3)

LS Humanities (3)

Non-Core Social Science or History (whichever is not represented in CORE) (3)

Liberal Studies (3)

**SOPHOMORE**

Fa Sp Su

Materials Fee assessed for EML3002L, EML3012C, EML3018C, and EML3811

**EML 3002L** ME Tools Lab (CC) (3)  
 MAC 2311  PHY 2048  EML3002 (co)

**EML 3002** ME Tools (2)  
 MAC 2311  PHY 2048

**EML 3004** Intro to ME (3)  
 MAC 2312  PHY 2048

**EML 3234** Mat Sci & Eng (3)  
 CHM 1045  PHY 2048C  EML 3004 (co)

**MAP 2302** or **MAP 3305** (3)  
 MAC 2312 (B- or better) or  MAC 2313

**PHY 2049C** Gen Physics II (5)  
 MAC 2311 (co)  MAC 2312 (se)

**COP 3014** Programming I (3)  
 MAC 1105

**MUST EARN 'C' OR BETTER TO PROCEED**

Sp Su Fa

**EML 3013C** Dynamic Sys I (4)  
 MAP 2302/3305 (co)  EML 3002L  EML 3004

**EML 3011C** Mech & Mat I (4)  
 CHM 1045  MAC 2313  EML 3002L  EML 3004

**5<sup>th</sup> MATH OPTIONS:**  
 EGN 3454 Numerical Methods for ME  
 MAP 3306 (Eng. Math II)  
 MAD 3401 (Intro. Numerical Analys.)  
 MAP 4341 (Elem. Partial Diff. Equat. I)  
 MAS 3105 (App. Linear Algebra I)  
 \*MAD 3703 (Numerical Analysis I)  
 \*STA 3032 (App. Stats for Eng & Sci)

**JUNIOR**

Fa & Sp

**EML 3014C** Dynamic Sys II (3)  
 EML 3013 C

**EML 3017C** Mech Systems I (4)  
 MAP 2302/3305  EML 3011C  EML 3013C

**EML 3015C** Thermal Fluids I (4)  
 MAC 2313  EML 3002  EML 3013C (co)

Sp & Fa

**EML 3016C** Thermal Fluids II (4)  
 MAP 2302/3305  EML 3015C

**EML 4304L** Exprmts Thrl Fluid Science (3)  
 EML 3012C  EML 3015C  EML 3016C (co)

**EML 3018C** Mech Systems II (4)  
 EML 3012C (co)  EML 3017C

Fa Sp Su

**EML 3811** Mechatronics Lab (2)  
 MAC 2312  PHY 2049

**EEL 3003** Intro to EE (3)  
 MAC 2312  PHY 2049

**5<sup>th</sup> Math** (3)  
 Check Prereq

**SENIOR**

Fa

Tech Elect I (3)  
 Check Prereqs

Tech Elect II (3)  
 Check Prereqs

**EML 4551C** Sr. Design I (SIP, OCCR) (3)  
 EML 3012C  EML 3014C  EML 3016C  EML 3018C  EML 4550

Sp

Tech Elect III (3)  
 Check Prereqs

Tech Elect IV (3)  
 Check Prereqs

**EML 4552C** Sr. Design II (SIP, OCCR) (3)  
 EML 4551C

- Technical Elective Tracks:**  
(declare track area by Junior Fall)
- Dynamic Systems
  - Thermal Fluids
  - Mechanics and Materials
  - Magnet Science and Technology
  - Aeronautics Track

COURSE DESCRIPTION	CREDIT

ME course listing - <https://ww2.eng.famu.fsu.edu/me/courses/> <https://ww2.eng.famu.fsu.edu/current/undergraduate/guide.html> updated 04/06/18

**IF YOU DO NOT PASS ALL THE CLASSES YOU ARE NOW TAKING, YOU MUST SEE YOUR ADVISOR DURING THE FIRST FIVE DAYS OF THE NEW SEMESTER TO BE READVISED.**

Student initials \_\_\_\_\_ I understand that any adjustment to the above schedule is my responsibility.

Student initials \_\_\_\_\_ I understand if the prerequisite and co-requisite requirements have **not been satisfied** with a 'C' grade or better I may be **administratively dropped** from the class any time during the term and remain fee liable.

Student initials \_\_\_\_\_ I have satisfied the 9 hour University Summer Requirement.

Student initials \_\_\_\_\_

STUDENT \_\_\_\_\_

ID# \_\_\_\_\_

EMAIL \_\_\_\_\_

Signature \_\_\_\_\_

ADVISOR \_\_\_\_\_

Advisor Signature \_\_\_\_\_

Date \_\_\_\_\_

For Term/ Year \_\_\_\_\_

I have conversed with my FACULTY ADVISOR about my career path, my LinkedIn page, and related issues.

Faculty initials \_\_\_\_\_