FSU | ASPIRE TSC2FSU

# College of Engineering
# Mechanical Engineering (BS)


| Admission Information | |
|---|---|
| ❖ Specialized Admissions – No | ❖ Minimum GPA = 2.00 overall |
| ❖ Limited Enrollment - No | ❖ Test Required – No |
| ❖ Separate Major Application Required – No | ❖ Admits every semester |

**** This is a recommended sequence of courses for general advisement purposes only. Students are encouraged to meet with their academic advisor****

# Required Pre-Requisite Courses*

**(C minus or higher required in each course)**

| FSU COURSES | TSC COURSE EQUIVALENT |
|---|---|
| MAC2311 Calculus I | MAC2311 |
| MAC2312 Calculus II (strongly recommended) | MAC2312 |
| MAC2313 Calculus III (strongly recommended) | MAC2313 |
| COP3014 Programming I (strongly recommended) | COP2221** |
| PHY2048 General Physics 1 + Lab (strongly recommended) | PHY2048/L |
| CHM1045 General Chemistry I + Lab | CHM1045/L |

**Only one repeated attempt out of all pre-engineering courses is permitted.**

*** This schedule assumes that the student already has credit for MAC 1105 College Algebra, MAC1114 Analytic Trigonometry and MAC1140 Pre-Calculus via accelerated credit while in high school.**

****COP2220 at TSC is a required prerequisite to COP2221**

## YEAR 1 TSC

| FALL | | SPRING | |
|---|---|---|---|
| ENC1101 | (3) | ENC 1102 | (3) |
| MAC2311 | (5) | MAC2312 | (5) |
| State Core Soc Sci, Area A, Group 1 | (3) | CHM1045 + CHM1045 Lab (NSLab)* | (4) |
| A.A. Elective | (3) | State Core Humanities, Area A: PHI2010 recommended (Eth)* | (3) |
| A.A. Elective: SLS1510 or SLS2261 recommended | (3) | | |
| | | | |
| **Total: 17** | | **Total: 15** | |

## YEAR 2 TSC

| FALL | | SPRING | |
|---|---|---|---|
| MAC2313 | (4) | PHY2048 + PHY2048 Lab | (4) |
| Humanities, Area B | (3) | Social Science, Area B: ANT2410,GEA2000,SYG2010, WOH2012, or WOH2022 recommended (EHE)* | (3) |
| State Core Soc Sci, Area A, Group 2 (Civ Lit)* | (3) | COP2221 | (3) |
| Natural Science, Area B | (3) | SPC2608 | (3) |
| COP2220 | (3) | | |
| | | | |
| **Total: 16** | | **Total: 13** | |

**FSU Graduation Requirement: NSLab = Natural Science Lab, Civ Lit = Civic Literacy, Eth =Ethics, EHE = Exploring the Human Experience*

**Total Credits: 61**

# Transfer to the University Information

*Please Note: Face-to-face/in-person instruction of this program is available at BOTH the main campus in Tallahassee, FL and the Panama City, FL campus. This program is NOT available via Online/Distance Learning.*

**Website:** https://admissions.fsu.edu/transfer/
**Email:** admissions@fsu.edu
**Phone:** (850) 644-6200
**Address:** Florida State University
Office of Admissions
A2500 University Center
282 Champions Way
Tallahassee FL 32306-2400

# Major Information (CIP: 14.1901)

**FAMU/FSU College of Engineering:** https://www.eng.famu.fsu.edu/
**Admission to major:** https://www.eng.famu.fsu.edu/cbe/undergraduate-admissions
**Email:** eburgess@eng.famu.fsu.edu

**Special note:** The Accreditation Board for Engineering and Technology (ABET) requires that all students graduating from an ABET-accredited program meet certain requirements.

One of these requirements is that **ALL** Engineering majors at FSU **MUST** complete the following:

- PHY X048/X048L General Physics A and Lab (4) or PHY X048C (5) General Physics A with Lab
- PHY X049/X049L General Physics B and Lab (4) or PHY X049C (5) General Physics B with Lab

**NO** other Physics classes (PHY X020, PHY X053/X053L, PHYX054/X054L) can count or substitute for this requirement.

# Employment Information

**FSU Career Center:** https://www.career.fsu.edu/

**Representative Job Titles Related to this Major:** Basic Engineering: Applied Mechanics, Bioengineering, Fluids Engineering, Heat Transfer, Tribology. Energy Conversion: Internal Combustion Engines, Fuels and Combustion Technologies, Gas Turbine, Nuclear Engineering, Power. Energy Resources: Advanced Energy Systems, Ocean Engineering, Petroleum, Solar Energy. Environment and Transportation: Aerospace, Air Pollution Control, Noise Control and Acoustics, Rail Transportation, Solid Waste Processing. General Engineering: Management, Safety, Technology and Society. Materials and Structures: Materials, Pressure Vessels and Piping, NDE Engineering, Offshore Mechanics and Arctic Engineering. Manufacturing: Materials Handling Engineering, Plant Engineering and Maintenance, Process Industries, Production Engineering, Textile Industries. Systems and Design: Computer Engineering, Design Engineering, Dynamic Systems and Control, Electrical and Electronic Packaging.

**Representative Employers:** Government, Private Business, Industry, Education.