

This Associate in Arts degree program is designed for students who expect to transfer and earn a degree in Chemical, Civil, Electrical, Industrial, or Mechanical Engineering at Florida A & M University.

For additional program information, visit the [FAMU website](#).

Possible employment areas for chemical engineer include chemical, environmental, biomedical, biochemical design, food, polymer, project, process, research, & materials engineer; civil engineer includes structural, transportation & pipeline, environmental, highway, water resource, construction, & geotechnical engineer; electrical engineer includes electrical, computer, analog circuit design, applications, product development systems, and digital circuit design engineer; industrial engineer includes industrial, manufacturing, production, systems, applications, and systems analyst engineer; mechanical engineer includes electrical, gas turbine, nuclear, solar, environment & transportation, aerospace, solid waste, offshore & arctic, plant, textiles, computer engineering.

For more information please visit the [Occupational Outlook Handbook website](#).

While academic advisors, faculty and staff provide significant academic planning and related assistance to students, completion of all degree requirements, and the process of monitoring progress to that end, is ultimately the responsibility of the student.

ACADEMIC PLAN: Associate in Arts Degree

Engineering
Transfer Institution: Florida A & M University

Code 1080 **Program Length** 60 credits

Entrance Requirements

All first time in college (Fall 2014 and beyond) students are required to successfully complete two years of the same foreign language in high school or two semesters of the same foreign language at the college level before the associate degree is awarded. Home School students must demonstrate competency through competency testing.

2020-2021

For more information
Contact:

Student Affairs
Chipola College
(850) 718-2266



FRESHMAN YEAR

| 1st Semester | | Sem. Hrs. | 2nd Semester | | Sem. Hrs. |
|------------------|------------------------------|-----------|-------------------------------|----------------------------------|--------------|
| ENC 11011 | English Composition I | 3 | ENC 11021 | English Composition II | 3 |
| CHM 1045 & 1045L | General Chemistry I with Lab | 4 | CHM 1046 & 1046L ² | General Chemistry II with Lab | |
| MAC 1140 | Precalculus Algebra | 3 | or XXX XXXX | or ELECTIVE | 3-4 |
| MAC 1114 | Plane Trigonometry | 3 | MAC 1311 | Calculus and Analytic Geometry I | 4 |
| SLS 1101 | Orientation | 1 | XXX XXXX ^{1,3,4} | SOCIAL SCIENCE CORE | 3 |
| SLS 1401 | Career and Life Planning | 1 | XXX XXXX ¹ | HUMANITIES CORE | 3 |
| TOTAL | | 15 | TOTAL | | 16-17 |

SOPHOMORE YEAR

| 1st Semester | | Sem. Hrs. | 2nd Semester | | Sem. Hrs. |
|-----------------------|-----------------------------------|-----------|-----------------------|------------------------------------|-----------|
| XXX XXXX ¹ | GORDON RULE WRITING | 3 | XXX XXXX ¹ | GORDON RULE WRITING | 3 |
| MAC 2312 | Calculus and Analytic Geometry II | 4 | MAC 2313 | Calculus and Analytic Geometry III | 4 |
| PHY 2048C & 2048L | General Physics I with Calculus | 5 | PHY 2049C & 2049L | General Physics II with Calculus | 5 |
| XXX XXXX ⁴ | SOCIAL SCIENCE | 3 | MAP 2302 | Differential Equations | 3 |
| TOTAL | | 15 | TOTAL | | 15 |

¹ See General Education Requirements in the Current Chipola College Catalog.

² This course is required for chemical engineering majors only.

³ **Chemical Engineering** requires CHM 1046, CHM 2210, CHM 2211, BSC 2010.

Biomedical Engineering requires CHM 1046, CHM 2210, CHM 2211, BSC 2010, and PSY 2012.

Check with FAMU for specific GPA requirements and application deadlines.

⁴ **All first-time-in-college students (Fall 2018 and beyond) are required to demonstrate competency in civic literacy through one of the following options:**

1) successfully passing either POS 2041 American Federal Government or AMH 2020 American History Since 1865, or 2) achieving the standard score on AP Government and Politics: United States, AP United States History or CLEP: American Government.