

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

For additional program information, visit the [FSU website](#), [program description](#), and [academic map](#).

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 State University

**Code**                      **Program Length**  
1080                        60 credits

### Entrance Requirements

All areas require a minimum overall GPA of 2.0 for admission. Students must earn a minimum grade of "C" or better in MAC 1311; MAC 2312; CHM 1045; CHM 1046 (for chemical/biomedical engineering majors only); and PHY 2048C for civil, computer, electrical, and industrial engineering majors. A single repeated attempt in only **one** of these four courses is permitted with no more than one grade of "C" allowed.

**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.**

FSU requires competency in oral communications for graduation. If you took a speech course in high school or were a member of a debate team, you may exempt this requirement. If not take SPC 2608<sup>4</sup> at Chipola to satisfy this requirement SPC 2608 is required for Industrial engineering majors, other engineering majors fulfill the oral competency requirement through upper level course work at FSU.

See page 2 for major-specific courses.

### FRESHMAN YEAR

1st Semester	Sem. Hrs.	2nd Semester	Sem. Hrs.
ENC 1101 <sup>1</sup>	English Composition I	ENC 1102 <sup>1</sup>	English Composition II
CHM 1045 & 1045L <sup>4</sup>	General Chemistry I with Lab	CHM 1046 & 1046L <sup>3</sup>	General Chemistry II with Lab
MAC 1140 & 1114	Precalculus Algebra & Trigonometry	MAC 1311 <sup>4</sup>	Calculus and Analytic Geometry I
SLS 1401	Career and Life Planning	XXX XXXX <sup>1,5</sup>	SOCIAL SCIENCE CORE
SLS 1101	Orientation	XXX XXXX <sup>1</sup>	HUMANITIES CORE
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>17</b>

### SOPHOMORE YEAR

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

<sup>1</sup> See General Education Requirements in the current Chipola College Catalog.

<sup>2</sup> FSU requires 6 hrs. of international/diversity courses. If you complete an AA degree before transferring, FSU only requires 3 hrs. of international/diversity coursework. Chipola courses that meet this requirement include AMH 2091/2093, ASH 1044, GEA 2001/2002, REL 2300, SYG 1010, and THE 1000.

<sup>3</sup> This course is required for chemical, biomedical engineering majors. Environmental engineering may take CHM 1046 with Lab or MCB 2010 with lab.

<sup>4</sup> Students must complete these prerequisite courses for admission in preparation for the upper division major: MAC 1311, MAC 2312, MAC 2313, MAP 2302, CHM 1045/L, PHY 2048C/L, and PHY 2049C/L.

<sup>5</sup> 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.

See page 2 from major specific courses.

# 2020-2021

For more information  
Contact:

Student Affairs  
Chipola College  
(850) 718-2266



Engineering Programs	BSC 2010	STA 2023	CHM 1045/L	CHM 1046/L	MAC 1311	MAC 2312	MAC 2313	MAP 2302	PHY 2048/L	PHY 2049/L	Other Required Courses
<a href="#">Chemical</a>	X		X	X	X	X	X	X	X	X	EGN 1004L <sup>1</sup> , CHM 2210/L, CHM 2211/L
<a href="#">Chemical-Biomedical</a>	X		X	X	X	X	X	X	X	X	EGN 1004L <sup>1</sup> , CHM 2210/L, CHM 2211/L
<a href="#">Civil</a>	X	X	X		X	X	X	X	X	X	EGN 1004L <sup>1</sup>
<a href="#">Computer</a>			X		X	X	X	X	X	X	EGN 1004L <sup>1</sup> , COP 3014 <sup>2</sup>
<a href="#">Electrical</a>			X		X	X	X	X	X	X	EGN 1004L <sup>1</sup> , COP 3014 <sup>2</sup>
<a href="#">Environmental</a>	X	X	X	X <sup>3</sup>	X	X	X	X	X	X	EGN 1004L <sup>1</sup>
<a href="#">Industrial</a>			X		X	X	X	X	X	X	EGN 1004L <sup>1</sup>
<a href="#">Mechanical</a>			X		X	X	X	X	X	X	EGN 1004L <sup>1</sup>

<sup>1</sup> EGN 1004L is not offered at Chipola, should be taken at FSU.

<sup>2</sup> COP 3014 is not offered at Chipola, can be taken at FSU.

<sup>3</sup> Environmental Engineering majors may take CHM 1046 with lab or MCB 2010 with lab.