

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

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

Possible employment areas for civil engineer includes structural, transportation & pipeline, environmental, highway, water resource, construction, & geotechnical engineer; electrical & computer engineer includes electrical, computer, analog circuit design, applications, product development systems, and digital circuit design 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 (Civil, Computer, Electrical, Environmental, Mechanical)

**Transfer Institution: Florida State University**

**PANAMA CITY CAMPUS**

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

# 2020-2021

For more information  
Contact:

**Student Affairs**  
**Chipola College**  
**(850) 718-2266**



### Entrance Requirements

All areas require a minimum overall GPA of 2.0 for admissions. In addition, students must earn a minimum grade of “C” or better in MAC 1311; MAC 2312, CHM 1045, and PHY 2048C . A single repeated attempt in only one of these courses is permitted. Generally, engineering majors must earn a grade of “C” or higher in all prerequisite and engineering courses which apply toward the degree, including those which are transferred. Contact the department for further details.

**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 oral competency for graduation.** If you took a speech course in high school or were a member of a debate team, you may exempt this requirement. **Civil, Computer, Electrical, Environmental, and Mechanical 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	English Composition I	3	ENC 1102 <sup>1</sup>	English Composition II	3
CHM 1045 & 1045L <sup>5</sup>	General Chemistry I with Lab	4	CHM 1046 & 1046L <sup>3</sup>	General Chemistry II with Lab	4
MAC 1140 & 1114	Precalculus Algebra & Trigonometry	6	MAC 1311 <sup>5</sup>	Calculus and Analytic Geometry I	4
SLS 1401	Career and Life Planning	1	XXX XXXX <sup>1,6</sup>	Social Science Core	3
SLS 1101	Orientation	1	XXX XXXX <sup>1</sup>	HUMANITIES CORE	3
<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	3	XXX XXXX <sup>1</sup>	GORDON RULE WRITING	3
MAC 2312 <sup>5</sup>	Calculus and Analytic Geometry II	4	MAC 2313 <sup>5</sup>	Calculus and Analytic Geometry III	4
PHY 2048C & 2048L <sup>5</sup>	General Physics I with Calculus & Lab	5	PHY 2049C & 2049L <sup>5</sup>	General Physics II with Calculus & Lab	5
XXX XXXX <sup>2,6</sup>	SOCIAL SCIENCE	3	MAP 2302 <sup>4,5</sup>	Differential Equations	3
<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> **Environmental Engineering majors may take CHM 1046 with labs or MCB 2010 with labs.**

<sup>4</sup> Students may choose to take MAP 3305, Engineering Math I, at FSU/PC during the summer before fall admission.

<sup>5</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>6</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.**

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="#">Civil</a>	X	X	X		X	X	X	X	X	X	EGN 1004L <sup>1</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="#">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="#">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 should be taken at FSU.

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