

Academic Pathway to:  
**Engineering: UF**

Associate in Arts  
**Code:** 1080  
**Length:** 60 credits

For more information contact: **Student Services**  
**advising@chipola.edu**  
**850-718-2266**

**FRESHMAN YEAR**

1st Semester		Sem. Hrs.	2nd Semester		Sem. Hrs.
ENC 1101	English Composition I	3	ENC 1102	English Composition II	3
CHM 1045 & 1045L <sup>2</sup>	General Chemistry I with Lab	4	CHM 1046 & 1046L <sup>3</sup>	General Chemistry II with Lab	4
MAC 1140	Precalculus Algebra	3	MAC 1311 <sup>2</sup>	Calculus and Analytic Geometry I	4
MAC 1114	Trigonometry	3	XXX XXXX <sup>1,4,5</sup>	SOCIAL SCIENCE CORE	3
SLS 1401	Career and Life Planning	1	XXX XXXX <sup>1</sup>	HUMANITIES CORE	3
SLS 1101	Orientation	1			
<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>2</sup>	Calculus and Analytic Geometry II	4	MAC 2313 <sup>2</sup>	Calculus and Analytic Geometry III	4
PHY 2048C & 2048L <sup>2</sup>	Gen Physics I with Calculus & Lab	5	PHY 2049C & 2049L <sup>2</sup>	Gen Physics II with Calculus & Lab	5
XXX XXXX <sup>1,4,5</sup>	SOCIAL SCIENCE	3	MAP 2302 <sup>2</sup>	Differential Equations	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

<sup>1</sup> See the General Education Requirements in the Current Chipola College Catalog. **Agricultural & Biological Engineering is the only engineering major that will accept ENC 2210 for UF's ENC 3254.**

<sup>2</sup> UF critical tracking courses for all engineering majors.

<sup>3</sup> Aerospace engineering, civil engineering, computer engineering, computer science, digital arts and sciences, electrical engineering, industrial and systems engineering, mechanical engineering, and nuclear engineering either do not require CHM2046/2096 or may substitute another course

<sup>4</sup> Industrial & Systems Engineering students must choose ECO 2013 and ECO 2023.

<sup>5</sup> **Students enrolled in AA, AS, or BS degree programs must complete the State of Florida's Civic Literacy requirement as outlined in section 1007.25(4), Florida Statutes (F.S.). See catalog or contact an Academic Advisor for more information.**

**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.**

**See page 2 from major specific courses.**

<b>Engineering Programs</b>	<b>CHM 1045/L</b>	<b>CHM 1046/L</b>	<b>MAC 1311</b>	<b>MAC 2312</b>	<b>MAC 2313</b>	<b>MAP 2302</b>	<b>PHY 2048/L</b>	<b>PHY 2049/L</b>	<b>Other Required Courses</b>
<a href="#">Aerospace</a>	X		X	X	X	X	X	X	BSC 2010 or CHM 1046
<a href="#">Biological</a>	X	X	X	X	X	X	X	X	BSC 2010
<a href="#">Biomedical</a>	X	X	X	X	X	X	X	X	BSC 2010/L, CHM 2210, CHM 2211
<a href="#">Chemical</a>	X	X	X	X	X	X	X	X	BSC 2010, CHM 2210/L, CHM 2211/L
<a href="#">Civil</a>	X		X	X	X	X	X	X	BSC 2010
<a href="#">Computer Engineering</a>	X		X	X	X	X	X	X	BSC 2010, BSC 2011, or CHM 1046
<a href="#">Computer Science</a>	X		X	X	X		X	X	
<a href="#">Digital Arts &amp; Sciences</a>	X		X	X	X	X	X	X	
<a href="#">Electrical</a>	X		X	X	X	X	X	X	BSC 2010, BSC 2011, or CHM 1046
<a href="#">Environmental</a>	X	X	X	X	X	X	X	X	
<a href="#">Industrial &amp; Systems</a>	X		X	X	X		X	X	ECO 2013, ECO 2023, ACG 2021
<a href="#">Materials Science &amp; Engineering</a>	X	X	X	X	X	X	X	X	
<a href="#">Mechanical</a>	X		X	X	X	X	X	X	BSC 2010 or CHM 1046
<a href="#">Nuclear</a>	X		X	X	X	X	X	X	BSC 2010 or CHM 1046,

*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.*