## **CHEMICAL ENGINEERING (60 Credits)**

#### **Guided Pathway: Associate of Arts**

**Concentration: Chemical Engineering (FULL TIME).** 

For more information, visit <u>www.fgc.edu</u> and your academic advisor. Meta-major: STEM

University Transfer: FAMU, FSU, UF, USF

The *Associate of Arts* degree is a collegiate degree program consisting of lower-division courses intended for transfer to baccalaureate programs at the universities listed above<sup>ii</sup>. This plan is for those who are interested in earning a baccalaureate degree in *Chemical Engineering*.

This is the sequence of courses for students interested in majoring in *Chemical Engineering* at one of the universities listed above. It does not represent a contract, nor does it guarantee course availability or entry into your university of choice. This pathway presents classes needed for your baccalaureate degree in *Chemical Engineering*. Courses that complete the degree are listed below. As always, visit your academic advisor each semester to help you keep on track for graduation.



## FULL-TIME Pathway

\*Note: All AA degrees must satisfy the Foreign Language requirement for graduation. Please see catalog\* SEMESTER BY SEMESTER MAP FOR FULL-TIME STUDENTS

SEMESTER 1	ACTION ITEMS
ENC 1101 – Freshman Composition I <sup>iv</sup> (Communication core)	• Meet with your advisor to confirm academic and career goals by the end of the semester.
<u>Choose one</u> : <b>AMH 2010</b> – US History to 1877 <i>OR</i> <b>AMH 2020</b> – US History from 1877 <i>OR</i> <b>POS 1041</b> – American Government <sup>iv</sup> (Social Science & civic literacy)	<ul> <li>REQUIRED: Complete the <i>Computer Competency</i> course within Canvas.</li> <li>Signup for and pass the Florida Civic Literacy Exam.</li> <li>Consult your advisor to make sure you have met <i>the Foreign</i></li> </ul>
MAC 1105 – College Algebra <sup>iv vi</sup> (Mathematics core)	<ul> <li><i>Language requirement.</i></li> <li>At the end of the semester, begin research on college and universities where you want to seek to transfer. Meet with a</li> </ul>
<b><u>Choose one</u>: BSC 1005 –</b> Biological Principles for Non-Majors <b>OR</b> <b>Any general education BOT or BSC course</b> (Biological Science) (3-4 cr)	<ul> <li>career advisor/coach to research your career options with a degree in <i>Chemical Engineering</i>.</li> <li>Remember to start collecting artifacts from your courses for your Academic &amp; Career Portfolio in SLS 2370</li> <li>Begin applying for Financial Aid and Scholarships</li> </ul>
CHM 2045/L – General Chemistry I/Lab (Physical Science core) (4 cr)	• You can start the FAFSA in October for the next academic year. (i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025)
TOTAL CEMPOTED	
	CREDIT HOURS: 16-17
IUTAL SEMESTER 2	CREDIT HOURS: 16-17 ACTION ITEMS
SEMESTER 2 <u>Choose one</u> : ENC 1102 – Freshman Composition II <i>OR</i> CRW 2001 – Creative Writing <i>OR</i>	ACTION ITEMS <ul> <li>Meet with your advisor to confirm or update your</li> </ul>
SEMESTER 2 <u>Choose one</u> : ENC 1102 – Freshman Composition II OR CRW 2001 – Creative Writing OR ENC 1141 – Writing about Literature <sup>iv</sup> (Communication)	<ul> <li>ACTION ITEMS</li> <li>Meet with your advisor to confirm or update your academic/career pathway and program of study.</li> <li>Ask about transfer advising to discuss options to pursue the</li> </ul>
SEMESTER 2         Choose one: ENC 1102 – Freshman Composition II OR         CRW 2001 – Creative Writing OR         ENC 1141 – Writing about Literature <sup>iv</sup> (Communication)         MAC 1140 – Precalculus <sup>iv vi</sup> (Mathematics core)	ACTION ITEMS     Meet with your advisor to confirm or update your academic/career pathway and program of study.
SEMESTER 2         Choose one: ENC 1102 – Freshman Composition II OR CRW 2001 – Creative Writing OR ENC 1141 – Writing about Literature <sup>iv</sup> (Communication)         MAC 1140 – Precalculus <sup>iv vi</sup> (Mathematics core)         MAC 1114 - Trigonometry <sup>iv vi</sup> (Elective Prerequisite)         Choose one: ARH 1000 – Art Appreciation OR HUM 2020 – Introduction to Humanities OR MUL 2010 – Music Appreciation OR	<ul> <li>ACTION ITEMS</li> <li>Meet with your advisor to confirm or update your academic/career pathway and program of study.</li> <li>Ask about transfer advising to discuss options to pursue the bachelor's degree.</li> <li>Continue collecting artifacts from courses for your Academic &amp;</li> </ul>
SEMESTER 2         Choose one: ENC 1102 – Freshman Composition II OR CRW 2001 – Creative Writing OR ENC 1141 – Writing about Literature <sup>iv</sup> (Communication)         MAC 1140 – Precalculus <sup>iv vi</sup> (Mathematics core)         MAC 1114 - Trigonometry <sup>iv vi</sup> (Elective Prerequisite)         Choose one: ARH 1000 – Art Appreciation OR HUM 2020 – Introduction to Humanities OR MUL 2010 – Music Appreciation OR THE 2000 – Theatre Appreciation <sup>iv</sup> (Humanities core)         CHM 2046/L – General Chemistry II/Lab <sup>iv</sup> (Elective Prerequisite) (4 cr)	<ul> <li>ACTION ITEMS</li> <li>Meet with your advisor to confirm or update your academic/career pathway and program of study.</li> <li>Ask about transfer advising to discuss options to pursue the bachelor's degree.</li> <li>Continue collecting artifacts from courses for your Academic &amp;</li> </ul>

SEMESTER 3	ACTION ITEMS
<b>SLS 2370</b> – Personal Academic & Career Engagement <sup>iv</sup> (3rd Soc Sci )	<ul> <li>Meet with your advisor to confirm or update your academic/career pathway and program of study.</li> <li>Ask about transfer advising to discuss options to pursue the bachelor's degree.</li> <li>Begin applying for Financial Aid and Scholarships         <ul> <li>You can start the FAFSA in October for the next academic</li> </ul> </li> </ul>
MAC 2311 – Calculus I <sup>iv</sup> (Elective Prerequisite) (4 cr)	<ul> <li>year. (i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025)</li> <li>Check with your advisor for important deadlines and dates</li> <li>Continue collecting artifacts from courses for your Academic &amp; Career Portfolio in SLS 2370.</li> </ul>
	ER CREDIT HOURS: 7
SEMESTER 4	ACTION ITEMS
Choose one: SPC 2608 – Public Speaking <i>OR</i> SPC 1017 – Oral Communications <i>OR</i> SPC 1061 – Introduction to Academic and Professional Speaking <sup>iv</sup> ( <i>Communications</i> ) Choose one: LIT 2000 – Introduction to Literature <i>OR</i> Any general education AML, ENL, LIT, PHI or REL courses ( <i>Humanities</i> ) <sup>iv</sup>	<ul> <li>Begin applying to your top choice universities.</li> <li>Begin applying for Financial Aid and Scholarships         <ul> <li>You can start the FAFSA in October for the next academic year. (<i>i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a</i></li> </ul> </li> </ul>
PHY 2048C – General Physics with Calculus I (Elective Prereq) (5 cr) MAC 2312 – Calculus II <sup>iv</sup> (Elective Prerequisite) (4 cr)	<ul> <li>college or university Fall 2025)</li> <li>Check with your advisor for important deadlines and dates</li> </ul>
	R CREDIT HOURS: 15
SEMESTER 5	ACTION ITEMS
MAC 2313 – Calculus III <sup>iv v</sup> (Elective Prerequisite) (4 cr)	
<b>MAP 2302</b> – Elementary Differential Equations $ivv$ (Elective Prerequisite)	<ul> <li>After reviewing your final program of study, apply for Graduation.</li> <li>Meet with your advisor to apply for the degree.</li> </ul>
Choose one: <b>PSY 2012 –</b> General Psychology <b>OR</b> <b>SYG 1000</b> – Introduction to Sociology <b>OR</b> <b>SYG 2300</b> – Introduction to Social Psychology <b>OR</b> <b>Any DEP or ECO course</b> (Social Science) <sup><i>iv</i></sup>	<ul> <li>Sign up forcommencement.</li> <li>Request final transcripts to be sent to the college or university to where you will transfer.</li> <li>Congratulations, graduate!</li> </ul>
<b>PHY 2049C</b> – General Physics with Calculus II (Elective Prereq)(5 cr)	
	R CREDIT HOURS: 15
AACE DEGREE MINIMUM: 60 SEMESTER CREDIT	HOURS PATHWAY TOTAL: 69-70 <sup>vi</sup> CREDIT HOURS
Degree plans may change in later catalogs. You may use this pathway if yo Students must earn at least 25% of the credit hours (15 hours) required 4 <sup>III</sup> This is not an official degree plan. For official degree requirements, <u>click</u> <sup>V</sup> You must earn a grade of "C" or better in all Gordon Rule classes.	u entered the college on or before this date. or graduation through instruction by FGC to award the degree. <u>here</u> .

V You must earn a grade of "C" or better in all Gordon Rule classes. V. This course is only offered in the spring term. VI If student enrolls ready for MAC 2311, then MAC 1105, MAC 1114, and MAC 1140 are not necessary, bringing the Total Pathway credits to 60-61.

### **CHEMICAL ENGINEERING (60 Credits)**

#### **Guided Pathway: Associate of Arts**

Concentration: Chemical Engineering (PART TIME).

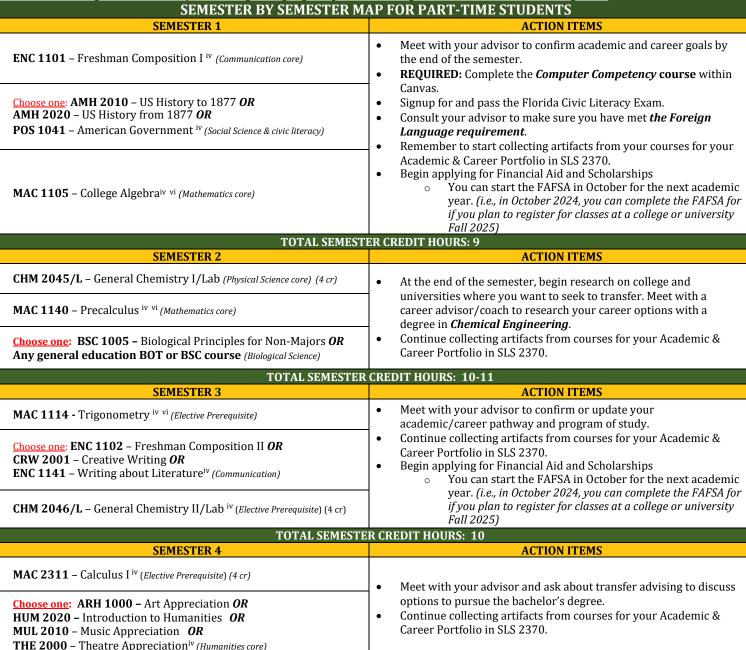
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University Transfer: FAMU, FSU, UF, USF

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# PART-TIME Pathway

SEMESTER 5	ACTION ITEMS
<b>MAC 2312 –</b> Calculus II <sup>iv</sup> (Elective Prerequisite) (4 cr)	<ul> <li>Meet with your advisor to confirm academic and career goals by the end of the semester.</li> <li>Meet with a career advisor/coach to research your career options.</li> <li>Continue collecting artifacts from your courses for your Academic &amp; Career Portfolio in SLS 2370.</li> </ul>
<b>SLS 2370</b> – Personal Academic & Career Engagement <sup>iv</sup> (3rd Soc Sci)	<ul> <li>Begin applying for Financial Aid and Scholarships         <ul> <li>You can start the FAFSA in October for the next academic year. (i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025)</li> </ul> </li> </ul>
	CR CREDIT HOURS: 7
SEMESTER 6	ACTION ITEMS
MAC 2313 – Calculus III <sup>iv v</sup> (Elective Prerequisite) (4 cr)	<ul> <li>Meet with your advisor to confirm or update your academic/career pathway and program of study.</li> <li>Continue collecting artifacts from your courses for your Academic &amp; Career Portfolio in SLS 2370.</li> </ul>
<b>MAP 2302</b> – Elementary Differential Equations $ivv$ (Elective Prerequisite)	
	R CREDIT HOURS: 7
SEMESTER 7	ACTION ITEMS
<u>Choose one</u> : LIT 2000 – Introduction to Literature <i>OR</i> Any general education AML, ENL, LIT, PHI or REL courses (Humanities) <sup>iv</sup>	<ul> <li>Begin applying to your top choice universities.</li> <li>Begin applying for Financial Aid and Scholarships</li> <li>You can start the FAESA in October for the part academic</li> </ul>
<b>Any general education AML, ENL, LIT, PHI or REL</b> courses (Humanities) <sup>iv</sup>	<ul> <li>Begin applying for Financial Aid and Scholarships         <ul> <li>You can start the FAFSA in October for the next academic</li> </ul> </li> </ul>
Any general education AML, ENL, LIT, PHI or REL courses (Humanities) <sup>iv</sup> PHY 2048C - General Physics with Calculus I (Elective Prereq) (5 cr)         Choose one: SPC 2608 - Public Speaking OR SPC 1017 - Oral Communications OR SPC 1061 - Introduction to Academic and Professional Speaking <sup>iv</sup> (Communications)	<ul> <li>Begin applying for Financial Aid and Scholarships         <ul> <li>You can start the FAFSA in October for the next academic year. (<i>i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025</i>)</li> </ul> </li> <li>Check with your advisor for important deadlines and dates</li> </ul>
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