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 aboveⁱⁱ. 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

ENC 1101 – Freshman Composition I ^{iv} (Communication core) <u>Choose one</u> : AMH 2020 – US History from 1865 OR POS 1041 – American Government ^{iv} (Social Science & civic literacy)	 Meet with your advisor to confirm academic and career goals by the end of the semester. REQUIRED: Complete the <i>Computer Competency</i> course within Canvas. Signup for and pass the Florida Civic Literacy Exam.
POS 1041 – American Government ^{iv} (Social Science & civic literacy)	Canvas.
	• Consult your advisor to make sure you have met <i>the Foreign</i>
MAC 1105 – College Algebra ^{iv vi} (Mathematics core)	 Language requirement. At the end of the semester, begin research on college and universities where you want to seek to transfer. Meet with a career advisor/coach to research your career options with a degree in <i>Chemical Engineering</i>. Remember to start collecting artifacts from your courses for your Academic & Career Portfolio in SLS 2370 Begin applying for Financial Aid and Scholarships
Choose one: BSC 1005 – Biological Principles for Non-Majors <i>OR</i> Any general education BOT or BSC course (Biological Science Core) (3-4 cr)	
CHM 2045/L – General Chemistry I/Lab (Physical Science) (4 cr)	 You can start the FAFSA in October for the next academic year. (i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024)
	CREDIT HOURS: 16-17
SEMESTER 2	ACTION ITEMS
<u>Choose one</u> : ENC 1102 – Freshman Composition II <i>OR</i> CRW 2001 – Creative Writing <i>OR</i> ENC 1141 – Writing about Literature ^{iv} (Communication)	
MAC 1140 – Precalculus ^{iv vi} (Mathematics core)	• Meet with your advisor to confirm or update your
MAC 1114 - Trigonometry ^{iv vi} (Elective Prerequisite)	 academic/career pathway and program of study. Ask about transfer advising to discuss options to pursue the backalar's damage.
<u>Choose one</u> : MUL 1010 – Music Appreciation <i>OR</i> THE 2000 – Theatre Appreciation <i>OR</i> ARH 1000 – Art Appreciation <i>OR</i> HUM 2020 – Introduction to Humanities ^{iv} (Humanities core)	 bachelor's degree. Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370.
CHM 2046/L – General Chemistry II/Lab ^{iv} (Elective Prerequisite) (4 cr)	

SEMESTER 3	ACTION ITEMS
SLS 2370 – Personal Academic & Career Engagement ^{iv} (3rd Soc Sci)	 Meet with your advisor to confirm or update your academic/career pathway and program of study. Ask about transfer advising to discuss options to pursue the bachelor's degree. Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic
MAC 2311 – Calculus I ^{iv} (Elective Prerequisite) (4 cr)	 year. (i.e., in October 2022, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2023) Check with your advisor for important deadlines and dates Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370.
	ER CREDIT HOURS: 7
SEMESTER 4	ACTION ITEMS
Choose one: SPC 2608 – Public Speaking OR SPC 1017 – Oral Communications OR SPC 1061 – Introduction to Academic and Professional Speaking ^{iv} (Communications) Choose one: LIT 2000 – Introduction to Literature OR Any general education AML, ENL, LIT, PHI or REL courses (Humanities) ^{iv}	 Begin applying to your top choice universities. Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic year. (<i>i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024</i>)
PHY 2048C – General Physics with Calculus I (Elective Prereq) (5 cr) MAC 2312 – Calculus II ^{iv} (Elective Prerequisite) (4 cr)	 Check with your advisor for important deadlines and dates
	R CREDIT HOURS: 15
SEMESTER 5	ACTION ITEMS
MAC 2313 – Calculus III ^{iv v} (Elective Prerequisite) (4 cr)	
MAP 2302 – Elementary Differential Equations ^{iv v} (Elective Prerequisite)	 After reviewing your final program of study, apply for Graduation. Meet with your advisor to apply for the degree.
Choose one: PSY 2012 – General Psychology OR SYG 1000 – Introduction to Sociology OR SYG 2300 – Introduction to Social Psychology OR Any DEP or ECO course (Social Science) ^{<i>iv</i>}	 Sign up forcommencement. Request final transcripts to be sent to the college or university to where you will transfer. Congratulations, graduate!
PHY 2049C – General Physics with Calculus II (Elective Prereq)(5 cr)	
	R CREDIT HOURS: 15
AACE DEGREE MINIMUM: 60 SEMESTER CREDIT	HOURS PATHWAY TOTAL: 69-70 ^{vi} CREDIT HOURS
Degree plans may change in later catalogs. You may use this pathway if you students must earn at least 25% of the credit hours (15 hours) required d in This is not an official degree plan. For official degree requirements, click v 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)

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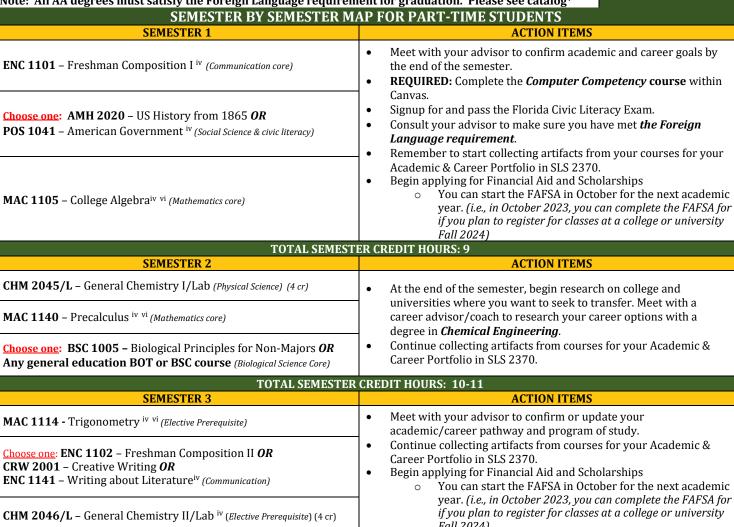
For more information, visit www.fgc.edu and your academic advisor. Meta-major: STEM

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	Tun 2024)	
TOTAL SEMESTER CREDIT HOURS: 10		
SEMESTER 4	ACTION ITEMS	
MAC 2311 – Calculus I ^{iv} (Elective Prerequisite) (4 cr)	• Meet with your advisor and ask about transfer advising to discuss	
Choose one:MUL 1010 – Music AppreciationORTHE 2000 – Theatre AppreciationORARH 1000 – Art AppreciationORHUM 2020 – Introduction to Humanities iv(Humanities core)	 options to pursue the bachelor's degree. Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370. 	



PART-TIME Pathway

SEMESTER 5	ACTION ITEMS
MAC 2312 – Calculus II ^{iv} (Elective Prerequisite) (4 cr)	 Meet with your advisor to confirm academic and career goals by the end of the semester. Meet with a career advisor/coach to research your career options. Continue collecting artifacts from your courses for your Academic & Career Portfolio in SLS 2370.
SLS 2370 – Personal Academic & Career Engagement ^{iv} (3rd Soc Sci)	 Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic year. (<i>i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024</i>)
	R CREDIT HOURS: 7
SEMESTER 6	ACTION ITEMS
MAC 2313 – Calculus III ^{iv v} (Elective Prerequisite) (4 cr)	 Meet with your advisor to confirm or update your academic/career pathway and program of study. Continue collecting artifacts from your courses for your Academic & Career Portfolio in SLS 2370.
MAP 2302 – Elementary Differential Equations ivv (Elective Prerequisite)	
	R CREDIT HOURS: 7
SEMESTER 7	ACTION ITEMS
Choose one: LIT 2000 – Introduction to Literature OR Any general education AML, ENL, LIT, PHI or REL courses	Begin applying to your top choice universities.
(Humanities) ^{iv}	 Begin applying to your top choice universities. Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic
	Begin applying for Financial Aid and Scholarships
(Humanities) ^{iv} 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 ^{iv} (Communications)	 Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic year. (<i>i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024</i>)
(Humanities) ^{iv} 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 ^{iv} (Communications)	 Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic year. (<i>i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024</i>) Check with your advisor for important deadlines and dates
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(Humanities) ^{iv} 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 ^{iv} (Communications) TOTAL SEMESTER 8 PHY 2049C- General Physics with Calculus II (Elective Prereq)(5 cr) Choose one: PSY 2012 - General Psychology OR SYG 1000 - Introduction to Sociology OR SYG 2300 - Introduction to Social Psychology OR Any DEP or ECO course (Social Science) ^{iv}	 Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic year. (<i>i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024</i>) Check with your advisor for important deadlines and dates RCREDIT HOURS: 11 After reviewing your final program of study, apply for Graduation. Meet with your advisor to apply for your degree. Sign up for commencement. Request final transcripts to be sent to the college or university to where you will transfer. Congratulations, graduate!
(Humanities) ^{iv} 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 ^{iv} (Communications) TOTAL SEMESTER 8 PHY 2049C- General Physics with Calculus II (Elective Prereq)(5 cr) Choose one: PSY 2012 - General Psychology OR SYG 1000 - Introduction to Social Psychology OR SYG 2300 - Introduction to Social Psychology OR Any DEP or ECO course (Social Science) ^{iv}	 Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic year. (<i>i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024</i>) Check with your advisor for important deadlines and dates R CREDIT HOURS: 11 ACTION ITEMS After reviewing your final program of study, apply for Graduation. Meet with your advisor to apply for your degree. Sign up for commencement. Request final transcripts to be sent to the college or university to where you will transfer.

ⁱ Degree plans may change in later catalogs. You may use this pathway if you entered the college on or before this date. ⁱⁱ Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by FGC to award the degree. ⁱⁱⁱ This is not an official degree plan. For official degree requirements, <u>click here</u>. ^{iv} 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.