



## Associate in Arts (AA) Chemical Engineering Transfer Intent

This Program Map is Part of the **Science, Technology, Engineering, and Mathematics Pathway**

This Program Map is for students who plan to earn an AA degree at Polk State College and transfer to Florida A&M University, Florida International University, Florida State University, University of Florida, or University of South Florida and earn a bachelor's degree in Chemical Engineering. This Program Map is intended to serve as a guide, and students should always meet with their Student Success Advisor to develop a personalized Educational Plan.

### Program Map for Students Attending Full-Time

Term	Course ID	Course Title	Credits
Term 1	SLS 1122	First-Year Experience	3 Credits
	ENC 1101	College Composition I	3 Credits
	MAC 1105	College Algebra (See Note 3)	3 Credits
	AMH 1020, or POS 2041	History of the United States: 1877 to Present, or American National Government (See Note 2)	3 Credits
Term 2	ENC 1102	College Composition II	3 Credits
	CHM 1045C	General Chemistry I	4 Credits
	MAC 1140	Precalculus Algebra (See Note 3)	3 Credits
	HUM 2020	Introduction to Humanities	3 Credits
Term 3	CHM 1046C	General Chemistry II	4 Credits
	MAC 1114	Trigonometry (See Note 3)	3 Credits
Term 4	HLP 1081	Wellness Concepts	2 Credits
	MAC 2311	Calculus I	5 Credits
	Social Sciences	Social Sciences General Education Course	3 Credits
	CHM 2210C	Organic Chemistry I	5 Credits
Term 5	MAC 2312	Calculus II	5 Credits
	PHY 2048C	General Physics I with Calculus	5 Credits
	CHM 2211C	Organic Chemistry II	5 Credits
Term 6	MAC 2313	Calculus III	5 Credits
	LIT 1000	Introduction to Literature	3 Credits
Term 7	PHY 2049C	General Physics II with Calculus	3 Credits
	MAP 2302	Differential Equations	3 Credits
	Humanities	Humanities General Education Course	3 Credits

**Total Credit Hours: 79 (See Note 5)**

#### A Few Notes:

1. Students must meet all graduation requirements, including demonstrating proficiency in a foreign language. To learn more about graduation requirements, [please refer to the College Catalog](#).
2. Pursuant to Rule 6A-10.02413 of the Florida Administrative Code, all degree-seeking students must demonstrate competency in civic literacy by both passing the Florida Civic Literacy Exam and by completion of either AMH 1020 (History of the United States: 1877 to the Present) or POS 2041 (American National Government). Students may also use AP or CLEP credit for one of the two courses options.
3. Students must earn an appropriate score on a placement examination or complete MAT 1033 to enroll in MAC 1105.
4. Students who earn a grade of A or B in MAC 1105 are eligible to take MAC 1147 instead of MAC 1114 and MAC 1140.



5. The AA degree requires the completion of 60 credit hours, including 36 credit hours of General Education courses and 24 credit hours of elective courses. This transfer intent requires the completion of additional courses in order to meet all pre-requisites for admission into a bachelor's degree program at a state university. These additional courses are in excess of required program hours and may not be covered by financial aid. Students should speak to their Student Success Advisor for more information.

CIP: 14.0701 – **2024-2025 Catalog Year (tentative)**

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### Program Map for Students Attending Part-Time

Term	Course ID	Course Title	Credits
Term 1	SLS 1122	First-Year Experience	3 Credits
	ENC 1101	College Composition I	3 Credits
Term 2	MAC 1105	College Algebra (See Note 3)	3 Credits
	ENC 1102	College Composition II	3 Credits
Term 3	MAC 1140	Precalculus Algebra (See Note 4)	3 Credits
	AMH 1020, or POS 2041	History of the United States: 1877 to Present, or American National Government (See Note 2)	3 Credits
Term 4	CHM 1045C	General Chemistry I	4 Credits
	HUM 2020	Introduction to Humanities	3 Credits
Term 5	CHM 1046C	General Chemistry II	4 Credits
	MAC 1114	Trigonometry (See Note 4)	3 Credits
Term 6	HLP 1081	Wellness Concepts	2 Credits
	MAC 2311	Calculus I	5 Credits
Term 7	MAC 2312	Calculus II	5 Credits
	CHM 2210C	Organic Chemistry I	5 Credits
Term 8	PHY 2048C	General Physics I with Calculus	5 Credits
	CHM 2211C	Organic Chemistry II	5 Credits
Term 9	Social Sciences	Social Sciences General Education Course	3 Credits
	Humanities	Humanities General Education Course	3 Credits
Term 10	MAC 2313	Calculus III	5 Credits
	PHY 2049C	General Physics II with Calculus	3 Credits
Term 11	LIT 1000	Introduction to Literature	3 Credits
	MAP 2302	Differential Equations	3 Credits

**Total Credit Hours: 79 (See Note 5)**

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