



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 12 Credits	SLS 1122	First-Year Experience	3 Credits
	ENC 1101	College Composition I	3 Credits
	MAC 1105	College Algebra (See Note 2 Below)	3 Credits
	Social Sciences	Social Sciences General Education Course	3 Credits
Term 2 13 Credits	ENC 1102	College Composition II	3 Credits
	CHM 1045C	General Chemistry I	4 Credits
	MAC 1140	Precalculus Algebra (See Note 3 Below)	3 Credits
	HUM 2020	Introduction to Humanities	3 Credits
Term 3 7 Credits	CHM 1046C	General Chemistry II	4 Credits
	MAC 1114	Trigonometry (See Note 3 Below)	3 Credits
Term 4 15-16 Credits	Wellness	Wellness General Education Course	2-3 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 15 Credits	MAC 2312	Calculus II	5 Credits
	PHY 2048C	General Physics I with Calculus	5 Credits
	CHM 2211C	Organic Chemistry II	5 Credits
Term 6 8 Credits	MAC 2313	Calculus III	5 Credits
	LIT 1000	Introduction to Literature	3 Credits
Term 7 9 Credits	PHY 2049C	General Physics II with Calculus	3 Credits
	MAP 2302	Differential Equations	3 Credits
	Humanities	Humanities General Education Course	3 Credits

Total Required Program Credit Hours

Total Program Map Credit Hours: 79-80 (See Note 4 Below)

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](#). Some students must also demonstrate competency in civic literacy. To learn more about the civic literacy requirement, [please refer to the College Catalog](#).
2. Students must earn an appropriate score on a placement examination or complete MAT 1033 in order to enroll in MAC 1105.
3. 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.
4. 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 - **2021-22 Catalog Year**



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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 2 Below)	3 Credits
	ENC 1102	College Composition II	3 Credits
Term 3	MAC 1140	Precalculus Algebra (See Note 3 Below)	3 Credits
	Social Sciences	Social Sciences General Education Course	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 3 Below)	3 Credits
Term 6	Wellness	Wellness General Education Course	2-3 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 Required Program Credit Hours

Total Program Map Credit Hours: 79-80 (See Note 4 Below)

A Few Notes:

- 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](#). Some students must also demonstrate competency in civic literacy. To learn more about the civic literacy requirement, [please refer to the College Catalog](#).
- Students must earn an appropriate score on a placement examination or complete MAT 1033 in order to enroll in MAC 1105.
- 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.
- 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.

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Additional Information



Career Coach

Are you interested in learning more about the careers this program will prepare you for? If so, check out Career Coach. Career Coach provides information on job openings, wages, education requirements, required skills, and job postings. You can even complete a career assessment to find careers that match your interests. To learn more about the careers that this program will prepare you for, [please visit Career Coach](#).



Polk State Pathways

Interested in exploring Program Maps for other programs and transfer intents at Polk State? Visit www.polk.edu/program-maps to view additional Pathways and Program Maps.

