



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 Credit Hours: 79-80

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.

CIP: 14.0701 - 2018-2019 Catalog Year



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 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 Credit Hours: 79-80

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.

CIP: 14.0701 - 2018-2019 Catalog Year

