

# Associate in Arts (AA) Computer Software 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 Gulf Coast University and earn a bachelor's degree in Computer Software 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.

12 CreditsENC 1101 MAC 1105College Composition I College Algebra (See Note 2)3 Credits 3 CreditsTerm 2 15 CreditsENC 1102 CHM 1045C, or BSC 1010C, or GLY2010CCollege Composition II General Chemistry I, or Principles of Biology I, or Physical Geology3 Credits 3 CreditsTerm 3 8 CreditsHumanities MAC 2311Humanities General Education Course Calculus I3 Credits 3 CreditsTerm 4 Cop 1000COP 2800 Programming in Java7 Credits 3 Credits5 Credits 3 Credits14 Credits HUM 2020Programming in Java Social Sciences HUM 20207 Credits 3 Credits3 Credits 3 Credits	Program Map for Students Attending Full-Time					
12 CreditsENC 1101College Composition I3 CreditsMAC 1105College Algebra (See Note 2)3 CreditsCGS 1061Introduction to Computers3 CreditsTerm 2ENC 1102College Composition II3 Credits15 CreditsCHM 1045C, or BSC 1010C, or GLY2010CGeneral Chemistry I, or Principles of Biology I, or Physical Geology4 CreditsTerm 3HumanitiesHumanities General Education Course3 Credits8 CreditsMAC 2311Calculus I5 Credits14 CreditsMAC 2312Calculus II5 Credits14 CreditsMAC 2312Calculus II5 CreditsHUM 2020Introduction to Humanities3 Credits14 CreditsHUM 2020Social Sciences General Education Course3 Credits	Term	Course ID	Course Title	Credits		
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Social SciencesSocial Sciences General Education Course3 CreditsHUM 2020Introduction to Humanities3 Credits	Term 4	COP 2800	Programming in Java	3 Credits		
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Term 5 MAC 2212 Coloulus III 5 Credite		HUM 2020	Introduction to Humanities	3 Credits		
	Term 5	MAC 2313	Calculus III	5 Credits		
<b>15-16 Credits</b> PHY 2048CGeneral Physics I with Calculus5 Credits	15-16 Credits					
Social Sciences Social Sciences General Education Course 3 Credits		Social Sciences	Social Sciences General Education Course	3 Credits		
Wellness Wellness General Education Course 2-3 Credits		Wellness	Wellness General Education Course	2-3 Credits		
Term 6STA 2023Introduction to Probability and Statistics3 Credits	Term 6	STA 2023	Introduction to Probability and Statistics	3 Credits		
6 Credits LIT 1000 Introduction to Literature 3 Credits	6 Credits	LIT 1000	Introduction to Literature	3 Credits		
	Term 7		Differential Equations	3 Credits		
8 CreditsPHY 2049CGeneral Physics II with Calculus5 Credits	8 Credits	PHY 2049C	General Physics II with Calculus	5 Credits		

Total Required Program Credit Hours: 60 Total Program Map Credit Hours: 78-79 (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, <u>please refer to the College Catalog</u>. Some students must also demonstrate competency in civic literacy. To learn more about the civic literacy requirement, <u>please refer to the College Catalog</u>.
- 2. Students must earn an appropriate score on a placement examination or complete MAT 1033 in order to enroll in MAC 1105.
- 3. Students must earn a grade of A or B in MAC 1105 to enroll in MAC 1147. Students may also take MAC 1114 and MAC 1140 instead of MAC 1147.
- 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: 14.0903 - 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)	3 Credits		
	CGS 1061	Introduction to Computers	3 Credits		
Term 3	ENC 1102	College Composition II	3 Credits		
	COP 1000	Introduction to Programming	3 Credits		
Term 4	CHM 1045C, or	General Chemistry I, or	4 Credits		
	BSC 1010C, or	Principles of Biology I, or			
	GLY2010C	Physical Geology			
	MAC 1147	Precalculus Algebra/Trigonometry (See Note 3)	5 Credits		
Term 5	COP 2800	Programming in Java	3 Credits		
	MAC 2311	Calculus I	5 Credits		
Term 6	Humanities	Humanities General Education Course	3 Credits		
	STA 2023	Introduction to Probability and Statistics	3 Credits		
Term 7	Social Sciences	Social Sciences General Education Course	3 Credits		
	MAC 2312	Calculus II	5 Credits		
Term 8	HUM 2020	Introduction to Humanities	3 Credits		
	MAC 2313	Calculus III	5 Credits		
Term 9	LIT 1000	Introduction to Literature	3 Credits		
	Wellness	Wellness General Education Course	2-3 Credits		
Term 10	MAP 2302	Differential Equations	3 Credits		
	PHY 2048C	General Physics I with Calculus	5 Credits		
Term 11	Social Sciences	Social Sciences General Education Course	3 Credits		
	PHY 2049C	General Physics II with Calculus	5 Credits		
Total Required Preason Credit House, 60					

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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, <u>please visit Career Coach</u>.



### **Polk State Pathways**

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