



## Associate in Arts (AA) Computer 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 select public universities in Florida including Florida A&M University, Florida State University, University of Central Florida, University of Florida, and University of South Florida and earn a bachelor's degree in Computer 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
<b>Term 1</b> <b>12 Credits</b>	SLS 1122	First-Year Experience	3 Credits
	ENC 1101	College Composition I	3 Credits
	MAC 1105	College Algebra (See Note 2)	3 Credits
	CGS 1061	Introduction to Computers	3 Credits
<b>Term 2</b> <b>15 Credits</b>	ENC 1102	College Composition II	3 Credits
	CHM 1045C	General Chemistry I	4 Credits
	MAC 1147	Precalculus Algebra/Trigonometry (See Note 3)	5 Credits
	COP 1000	Introduction to Programming	3 Credits
<b>Term 3</b> <b>6 Credits</b>	Humanities	Humanities General Education Course	3 Credits
	LIT 1000	Introduction to Literature	3 Credits
<b>Term 4</b> <b>14 Credits</b>	COP 2224, or COP 2800	Programming in C++, or Programming Java	3 Credits
	MAC 2311	Calculus I	5 Credits
	Social Sciences	Social Sciences General Education Course	3 Credits
	HUM 2020	Introduction to Humanities	3 Credits
<b>Term 5</b> <b>15-16 Credits</b>	MAC 2312	Calculus II	5 Credits
	PHY 2048C	General Physics I with Calculus	5 Credits
	Social Sciences	Social Sciences General Education Course	3 Credits
	Wellness	Wellness General Education Course	2-3 Credits
<b>Term 6</b> <b>5 Credits</b>	MAC 2313	Calculus III	5 Credits
<b>Term 7</b> <b>8 Credits</b>	MAP 2302	Differential Equations	3 Credits
	PHY 2049C	General Physics II with Calculus	5 Credits

**Total Required Program Credit Hours: 60**

**Total Program Map Credit Hours: 75-76 (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 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: 14.0901 - **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	General Chemistry I	4 Credits
	MAC 1147	Precalculus Algebra/Trigonometry (See Note 3)	5 Credits
Term 5	MAC 2311	Calculus I	5 Credits
	LIT 1000	Introduction to Literature	3 Credits
Term 6	Social Sciences	Social Sciences General Education Course	3 Credits
	HUM 2020	Introduction to Humanities	3 Credits
Term 7	Social Sciences	Social Sciences General Education Course	3 Credits
	MAC 2312	Calculus II	5 Credits
Term 8	MAC 2313	Calculus III	5 Credits
	PHY 2048C	General Physics I with Calculus	5 Credits
Term 9	COP 2224, or COP 2800	Programming in C++, or Programming Java	3 Credits
	Wellness	Wellness General Education Course	2-3 Credits
	Term 10	MAP 2302	Differential Equations
Term 10	PHY 2049C	General Physics II with Calculus	5 Credits
	Term 11	Humanities	Humanities General Education Course

**Total Required Program Credit Hours: 60**

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- 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.
- 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

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### **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](#).

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### **Polk State Pathways**

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

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