Associate in Science (AS)
Computer Systems and Business Analysis

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

This Program Map is intended to serve as a guide; students should always meet with their Student Success Advisor to develop a personalized Education Plan.

Program Map for Students Attending Full-Time

Term	Course ID	Course Title	Credits
Term 1	CGS 1100	Computer Applications for Business	3 Credits
	ENC 1101	College Composition I	3 Credits
	Humanities	Humanities General Education Course (See Note 1)	3 Credits
	MAT 1100	Introduction to College Mathematics (See Note 2)	3 Credits
Term 2	COP 1000	Introduction to Programming	3 Credits
	Mathematics	Mathematics General Education Course (See Note 2)	3 Credits
	Civic Literacy	Civic Literary/Social Sciences General Education Course (See Note 3)	3 Credits
	ACG 2072	Accounting for Professionals	3 Credits
Term 3	Natural Science	Natural Science General Education Course (See Note 4)	3-4 Credits
	CTS 1441	Database Fundamentals	3 Credits
Term 4	GEB 1011	Introduction to Business	3 Credits
	ENC 2210	Introduction to Technical Writing	3 Credits
	COP 1170	Programming in Visual Basic	3 Credits
	CTS 2442	Database Applications	3 Credits
	COP 2224, or COP 2800	Programming in C++, or Programming in Java	3 Credits
Term 5	CEN 2071	Information System Testing and Quality	3 Credits
	CIS 2321	Systems Analysis and Design	3 Credits
	CTS 2450	Business Intelligence and Data Mining	3 Credits
	CTS 2433	Programming SQL	3 Credits
Term 6	CIS1950C	Capstone Experience: Computer Systems & Business Analysis	3 Credits
	Wellness	Wellness General Education Course	2-3 Credits

Total Required Program Credit Hours: 60

A Few Notes:
1. Students must take one of the approved Humanities General Education Courses in this program: ARH 2000, HUM 2020, LIT 1000, MUL 1010, PHI 2010, or THE 1000.
2. Students may take STA 2023 Introduction to Probability and Statistics or MAC 1105 College Algebra. Students must earn an appropriate score on a placement examination or complete the appropriate MAT prerequisite(s) before taking these courses.
3. 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 AMH 1010 (History of the United States: 1607-1877), 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 three-course options.
4. Students must take one of the approved Natural Science General Education Courses in this program: AST 1002C, BSC 1005C, BSC 1010, BSC 2085C, CHM 1045C, EVR 1001C, PHY

2020C, PHY 2048C, or PHY 2053.

5. Students must meet all graduation requirements. To learn more about graduation requirements, refer to the last page of this program map and to the College Catalog.

Program: AS-25240 – **2024-2025 Catalog Year (tentative)**

Additional Information

Minimum Graduation Requirements

To qualify for graduation at Polk State College, a student must:

1. Complete all degree-seeking admission requirements, including the submission of all necessary transcripts and other required documents.
2. Complete the required credit hours in a prescribed program of study.
3. Complete any other applicable requirements (e.g., some occupational and technical programs require a grade of C or better in all program courses).
4. Have an overall cumulative GPA of at least 2.00. A minimum cumulative program GPA of 2.0 is required for graduation with a credit or vocational certificate, or an Applied Technology Diploma.
5. **For Associate in Arts and Baccalaureate Degree programs ONLY**, satisfy the foreign language requirement for graduation, which is proficiency at college-level II (or the equivalent).
6. Complete at least 25 percent of the credit hours required for the degree or certificate through instruction offered at Polk State College.

To learn more about graduation requirements, including the foreign language proficiency requirement for AA, BAS, and BS degrees, refer to the College Catalog at http://catalog.polk.edu/.

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

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Computer Systems and Business Analysis

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Program Map for Students Attending Part-Time

Term	Course ID	Course Title	Credits
Term 1	CGS 1100	Computer Applications for Business	3 Credits
	MAT 1100	Introduction to College Mathematics (See Note 1)	3 Credits
Term 2	COP 1000	Introduction to Programming	3 Credits
	Mathematics	Mathematics General Education Course (See Note 1)	3 Credits
Term 3	Civic Literacy	Civic Literary/Social Sciences General Education Course (See Note 2)	3 Credits
	Humanities	Humanities General Education Course (See Note 3)	3 Credits
Term 4	ENC 1101	College Composition I	3 Credits
	ACG 2072	Accounting for Professionals	3 Credits
Term 5	Natural Science	Natural Science General Education Course (See Note 4)	3-4 Credits
	CTS 1441	Database Fundamentals	3 Credits
Term 6	GEB 1011	Introduction to Business	3 Credits
	ENC 2210	Introduction to Technical Writing	3 Credits
Term 7	COP 1170	Programming in Visual Basic	3 Credits
	CTS 2442	Database Applications	3 Credits
Term 8	COP 2224, or COP 2800	Programming in C++, or Programming in Java	3 Credits
	CEN 2071	Information System Testing and Quality	3 Credits
Term 9	CTS 2433	Programming SQL	3 Credits
	CTS 2450	Business Intelligence and Data Mining	3 Credits
Term 10	CIS 2321	Systems Analysis and Design	3 Credits
	CIS1950C	Capstone Experience: Computer Systems & Business Analysis	3 Credits
	Wellness	Wellness General Education Course	2-3 Credits

Total Required Program Credit Hours: 60

A Few Notes:
1. Students may take STA 2023 Introduction to Probability and Statistics or MAC 1105 College Algebra. Students must earn an appropriate score on a placement examination or complete the appropriate MAT prerequisite(s) before taking these courses.
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 AMH 1010 (History of the United States: 1607-1877), 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 three-course options
3. Students must take one of the approved Humanities General Education Courses in this program: ARH 2000, HUM 2020, LIT 1000, MUL 1010, PHI 2010, or THE 1000.
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4. Students must take one of the approved Natural Science General Education Courses in this program: AST 1002C, BSC 1005C, BSC 1010, BSC 2085C, CHM 1045C, EVR 1001C, PHY 2020C, PHY 2048C, or PHY 2053.
5. Students must meet all graduation requirements. To learn more about graduation requirements, refer to the last page of this program map and to the College Catalog.

Program: AS-25240 – **2024-2025 Catalog Year (tentative)**

Additional Information

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7. Complete all degree-seeking admission requirements, including the submission of all necessary transcripts and other required documents.
8. Complete the required credit hours in a prescribed program of study.
9. Complete any other applicable requirements (e.g., some occupational and technical programs require a grade of C or better in all program courses).
10. Have an overall cumulative GPA of at least 2.00. A minimum cumulative program GPA of 2.0 is required for graduation with a credit or vocational certificate, or an Applied Technology Diploma.
11. **For Associate in Arts and Baccalaureate Degree programs ONLY**, satisfy the foreign language requirement for graduation, which is proficiency at college-level II (or the equivalent).
12. Complete at least 25 percent of the credit hours required for the degree or certificate through instruction offered at Polk State College.

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