



Associate in Science (AS) Engineering Technology (Advanced Manufacturing Specialization)

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

This Program Map is for students who plan to earn an AS degree in Engineering Technology with a Specialization in Advanced Manufacturing at Polk State College. Students should carefully review the [program webpage](#) for more information. 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	ETD 1320C	Introduction to Computer-Aided Drafting	3 Credits
	EET 1084C	Introduction to Electronics	3 Credits
	ENC 1101	College Composition I	3 Credits
	HUM 2020, or PHI 2010	Introduction to Humanities, or Introduction to Philosophy	3 Credits
Term 2	ETI 1110C	Introduction to Quality	3 Credits
	ETI 1701C	Industrial Safety	3 Credits
	Mathematics	Mathematics General Education Course (See Note 1)	3 Credits
	AMH 1020	History of the United States: 1877 to Present (See Notes 2)	3 Credits
Term 3	ETM 1010C	Mechanical Measurements and Instrumentation	3 Credits
	ETI 1420C	Manufacturing Processes and Materials	3 Credits
Term 4	ETS 1511C	Motors and Controls	3 Credits
	ETM 2315C	Hydraulics and Pneumatics	3 Credits
	Natural Sciences	Natural Sciences General Education Course (See Note 3)	3-4 Credits
	Wellness	Wellness General Education Course (See Note 3)	2-3 Credits
Term 5	ETS 1542C	Introduction to Programmable Logic Controllers	3 Credits
	ETI 1622C	Concepts of Lean Manufacturing and Six Sigma	3 Credits
	Electives	Approved Electives (See Note 4)	5-6 Credits
Term 6	ETS 1535C	Automated Process Control	3 Credit
	ETS 1540C	Ind. Applications of PLC & Robotics	3 Credits
	Electives	Approved Electives (See Note 4)	6 Credits

Total Required Program Hours: 60

A Few Notes:

1. Students may take MGF 1130 Mathematical Thinking, 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 who take a 4-credit-hour Natural Sciences Course should take a 2-credit-hour Wellness Course. Natural Sciences: BSC 1005C (Survey of Biological Science), CHM 1020 (Chemistry for





Liberal Studies) CHM1045C (General Chemistry), ESC 1000 (Survey of Earth Science), PHY 2020C (Fundamentals of Physics), PHY 2048C (General Physics I with Calculus).

4. Students must earn six credits hours of electives from the following list: ETD 2364C, ETI 1002C, ETI 1181C, ETI 1414C, ETI 1949, ETI 2411C, ETI 2412C, ETI 1931, ENC 2210, CGS 1510C, CGS1061C, MAC 2233, and MAN 2500.
5. Students must meet all graduation requirements. To learn more about graduation requirements, [please refer to the College Catalog](#).

Program: AS-25690 – **2024-2025 Catalog Year (tentative)**



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Program Map for Students Attending Part-Time

Term	Course ID	Course Title	Credits
Term 1	ETD 1320C	Introduction to Computer-Aided Drafting	3 Credits
	ENC 1101	College Composition I	3 Credits
Term 2	EET 1084C	Introduction to Electronics	3 Credits
	MAT 1100	Introduction to College Mathematics (See Note 3)	3 Credits
Term 3	ETI 1110C	Introduction to Quality	3 Credits
	HUM 2020, or PHI 2010	Introduction to Humanities, or Introduction to Philosophy	3 Credits
Term 4	ETI 1701C	Industrial Safety	3 Credits
	AMH 1020	History of the United States: 1877 to Present (See Note 1)	3 Credits
Term 5	ETM 1010C	Mechanical Measurements and Instrumentation	3 Credits
	ETI 1420C	Manufacturing Processes and Materials	3 Credit
Term 6	ETS 1511C	Motors and Controls	3 Credit
	ETM 2315C	Hydraulics and Pneumatics	3 Credit
Term 7	Wellness	Wellness General Education (See Note 4)	2-3 Credits
Term 8	ETS 1542C	Introduction to Programmable Logic Controllers	3 Credit
	ETI 1622C	Concepts of Lean Manufacturing and Six Sigma	3 Credits
	Natural Sciences	Natural Sciences General Education Course (See Note 4)	3-4 Credits
Term 9	ETS 1535C	Automated Process Control	3 Credits
Term 10	ETS 1540C	Ind. Applications of PLC & Robotics	3 Credits
	Electives	Approved Electives (See Note 5)	6 Credits

Total Required Program Hours: 60

A Few Notes:

1. Students may take MGF 1130 Mathematical Thinking, 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 who take a 4-credit-hour Natural Sciences Course should take a 2-credit-hour Wellness Course. Natural Sciences: BSC 1005C (Survey of Biological Science), CHM 1020 (Chemistry for





Liberal Studies) CHM1045C (General Chemistry), ESC 1000 (Survey of Earth Science), PHY 2020C (Fundamentals of Physics), PHY 2048C (General Physics I with Calculus).

4. Students must earn six credits hours of electives from the following list: ETD 2364C, ETI 1002C, ETI 1181C, ETI 1414C, ETI 1949, ETI 2411C, ETI 2412C, ETI 1931, ENC 2210, CGS 1510C, CGS1061C, MAC 2233, and MAN 2500.
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