

Associate in Science (AS) **Network Systems Engineering Technology (Infrastructure Specialization)**

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

This Program Map is intended to serve as a guide for students who are new to the information technology industry. 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	CET 1600C	Network Fundamentals	3 Credits
	CTS 1131C	Computing Infrastructure College	3 Credits
	ENC 1101	Composition I	3 Credits
	CTS 1132C	Operating Systems and Security	3 Credits
Term 2	CET 1610C	Routing and Switching Essentials	3 Credits
	CTS 2320C	Windows Server 2019 Administration	3 Credits
	CTS 2109C	Virtualization Concepts and Implementation	3 Credits
	Mathematics	Mathematics General Education Course (See Note 1)	3 Credits
Term 3	CET 2615C	CCNA Cybersecurity Operations	3 Credits
	CTS 2376C	Firewall Services and Cybersecurity Essentials	3 Credits
	CTS 2192C	Microsoft Azure Administrator	3 Credits
Term 4	CTS 1160C	Modern Desktop Administrator	3 Credits
	CTS 2321C	Linux+	3 Credits
	CTS 2312C	Cloud Security	3 Credits
	Civic Literacy	Civic Literacy/Social Sciences General Education Course (See Note 2)	3 Credits
Term 5	CTS 2830C	DevNET Associate	3 Credits
	CAI 2352C	Artificial Intelligence on AWS	3 Credits
	Humanities	Humanities General Education Course (See Note 3)	3 Credits
Term 6	CET 2940	Network Engineering Technology Practicum	1 Credit
	Wellness	Wellness General Education Course (See Note 4)	2-3 Credits
	Natural Science	Natural Science General Education Course (See Notes 5)	3-4 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.



4. Students interested in earning a bachelor's degree are encouraged to earn 18 credits in General Education by completing either a 3-credit-hour science and a 3-credit hour wellness course or a 4-credit hour science and a 2-credit hour wellness course.
5. 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.
6. Students must meet all graduation requirements. To learn more about graduation requirements, [please refer to the College Catalog](#).

Program: AS-25271 – 2024-2025 Catalog Year (tentative)

Additional Information



Career Coach

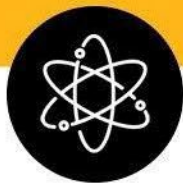
Are you interested in learning more about the careers this program will prepare you for? If so, check out Career Coach. Career Coach provides information on job openings, wages, education requirements, required skills, and job postings. You can even complete a career assessment to find careers that match your interests. To learn more about the careers that this program will prepare you for, [please visit Career Coach](#).



Polk State Pathways

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Program Map for Students Attending Part-Time

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	CTS 1131C	Computing Infrastructure	3 Credits
Term 2	ENC 1101	College Composition I	3 Credits
	CTS 1132C	Operating Systems and Security	3 Credits
Term 3	CET 1610C	Routing and Switching Essentials	3 Credits
	CTS 2320C	Windows Server 2019 Administration	3 Credits
Term 4	CTS 2109C	Virtualization Concepts and Implementation	3 Credits
	Mathematics	Mathematics General Education Course (See Note 1)	3 Credits
Term 5	CET 2615C	CCNA Cybersecurity Operations	3 Credits
	CTS 2376C	Firewall Services and Cybersecurity Essentials	3 Credits
Term 6	CTS 2192C	Microsoft Azure Administrator	3 Credits
	CTS 1160C	Modern Desktop Administrator	3 Credits
Term 7	CTS 2321C	Linux+	3 Credits
	CTS 2312C	Cloud Security	3 Credits
Term 8	Civic Literacy	Civic Literacy/Social Sciences General Education Course (See Note 2)	3 Credits
	CTS 2830C	DevNET Associate	3 Credits
Term 9	CAI 2352C	Artificial Intelligence on AWS	3 Credits
	Humanities	Humanities General Education Course (See Note 3)	3 Credits
	CET 2940	Network Engineering Technology Practicum	1 Credit
Term 10	Wellness	Wellness General Education Course (See Note 4)	2-3 Credits
	Natural Science	Natural Science General Education Course (See Note 5)	3-4 Credits

Total Required Program Credit Hours: 60

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