



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 for students who plan to earn an AS degree in Network Systems Engineering Technology with a specialization in Infrastructure at Polk State College. 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 12 Credits	CET 1600C	Network Fundamentals	3 Credits
	CTS 1131C	Computing Infrastructure	3 Credits
	ENC 1101	College Composition I	3 Credits
	CTS 1132C	Operating Systems and Security	3 Credits
Term 2 12 Credits	CET 1610C	Routing and Switching Essentials Windows	3 Credits
	CTS 2320C	Server 2019 Administration	3 Credits
	CTS 2109C	Virtualization Concepts and Implementation	3 Credits
	MGF 1106, or MAC 1105	Topics in Mathematics, or College Algebra (See Note 3 Below)	3 Credits
Term 3 6 Credits	CET 2615C	Scaling Networks	3 Credits
	CTS 2376C	Firewall Services and Cybersecurity Essentials	3 Credits
Term 4 12 Credits	CTS 1191C	Microsoft Azure Fundamentals	3 Credits
	CTS 2664C	CCNA Security	3 Credits
	HUM 2020	Introduction to Humanities	3 Credits
	CTS 1160C	Modern Desktop Administrator	3 Credits
Term 5 12-13 Credits	CTS 2192C	Microsoft Azure Administrator	3 Credits
	Natural Sciences	Natural Sciences General Education	3-4 Credits
	CTS 2321C	Course Linux+	3 Credits
	Elective	Approved Elective (See Note 2 Below)	3 Credits
Term 6 6-7 Credits	PSY 2012, or SYG 2000	General Psychology, or Introduction to Sociology	3 Credits
	Wellness	Wellness General Education Course (See Note 4 Below)	2-3 Credits
	CET 2940	Network Engineering Technology Practicum	1 Credit

Total Required Program Credit Hours: 60

A Few Notes:

1. Students must meet all graduation requirements. To learn more about graduation requirements, [please refer to the College Catalog](#).
2. Students must earn 12 credits hours of electives from the following list: CET 2688C, CGS 2135C, CIS 2352C, CTS 2126C, CTS 2312C, and CTS 2830C.
3. Students must earn an appropriate score on a placement examination or complete MAT 1100 in order to enroll in MGF 1106 or complete MAT 1033 in order to enroll in MAC 1105.
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.



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Program Map for Students Attending Part-Time

Term	Course ID	Course Title	Credits
Term 1	CET 1600C	Network Fundamentals	3 Credits
	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 Windows	3 Credits
	CTS 2320C	Server 2019 Administration	3 Credits
Term 4	CTS 2109C	Virtualization Concepts and Implementation	3 Credits
	MGF 1106, or MAC 1105	Topics in Mathematics, or College Algebra (See Note 3 Below)	3 Credits
Term 5	CET 2615C	Scaling Networks	3 Credits
	CTS 2376C	Firewall Services and Cybersecurity Essentials	3 Credits
Term 6	CTS 1191C	Microsoft Azure Fundamentals	3 Credits
	CTS 2664C	CCNA Security	3 Credits
Term 7	HUM 2020	Introduction to Humanities	3 Credits
	CTS 1160C	Modern Desktop Administrator	3 Credits
Term 8	CTS 2192C	Microsoft Azure Administrator	3 Credits
	Natural Sciences	Natural Sciences General Education Course	3-4 Credits
Term 9	CTS 2321C	Linux+	3 Credits
	Elective	Approved Elective (See Note 2 Below)	3 Credits
Term 10	PSY 2012, or SYG 2000	General Psychology, or Introduction to Sociology	3 Credits
	Wellness	Wellness General Education Course (See Note 4 Below)	2-3 Credits
	CET 2940	Network Engineering Technology Practicum	1 Credit

Total Required Program Credit Hours: 60

A Few Notes:

- Students must meet all graduation requirements. To learn more about graduation requirements, [please refer to the College Catalog](#).
- Students must earn 12 credits hours of electives from the following list: CET 2688C, CGS 2135C, CIS 2352C, CTS 2126C, CTS 2312C, and CTS 2830C.
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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, [please visit Career Coach](#).



Polk State Pathways

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

