



Associate in Science (AS) Network Systems Engineering Technology (Security 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 Security 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 2354C	Installation, Storage, and Configuration Windows	3 Credits
	ENC 1101	College Composition I	3 Credits
	Elective	Approved Elective (See Note 2 Below)	3 Credits
Term 2 12 Credits	CET 1610C	Routing and Switching Essentials	3 Credits
	CGS 2135C	Computer Forensics	3 Credits
	Elective	Approved Elective (See Note 2 Below)	3 Credits
	MGF 1106, or MAC 1105	Topics in Mathematics, or College Algebra (See Note 3 Below)	3 Credits
Term 3 6-7 Credits	CTS 2353C	Networking with Windows Server 2016	3 Credits
	Natural Sciences	Natural Sciences General Education Course (See Note 4 Below)	3-4 Credits
Term 4 12 Credits	CTS 2358C	Identity with Windows Server 2016	3 Credits
	CTS 2615C	Scaling Networks	3 Credits
	HUM 2020	Introduction to Humanities	3 Credits
	CTS 2376C	Firewall Services and Cybersecurity Essentials	3 Credits
Term 5 12 Credits	CTS 2352C	Ethical Hacking	
	CTS 2126C	Cybersecurity Analyst (CySA+)	3 Credits
	CET 2688C	System Security Practitioner (SSCP)	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	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: CTS 1131C, CTS 1132C, CTS 1161C, CTS 2109C, CTS 2321C, and CTS 2664C. Students without prior professional experience are strongly encouraged to take CTS 1131C and CTS 1132C.
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.

Program: AS-25275 – 2020-2021 Catalog Year



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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
	Elective	Approved Elective (See Note 2 Below)	3 Credits
Term 2	ENC 1101	College Composition I	3 Credits
	Elective	Approved Elective (See Note 2 Below)	3 Credits
Term 3	CTS 2354C	Installation, Storage, and Configuration Windows	3 Credits
	CET 1610C	Routing and Switching Essentials	3 Credits
Term 4	CGS 2135C	Computer Forensics	3 Credits
	MGF 1106, or MAC 1105	Topics in Mathematics, or College Algebra (See Note 3 Below)	3 Credits
Term 5	CTS 2353C	Networking with Windows Server 2016	3 Credits
	Natural Sciences	Natural Sciences General Education Course (See Note 4 Below)	3-4 Credits
Term 6	CTS 2358C	Identity with Windows Server 2016	3 Credits
	HUM 2020	Introduction to Humanities	3 Credits
Term 7	CTS 2615C	Scaling Networks	3 Credits
	CTS 2376C	Firewall Services and Cybersecurity Essentials	3 Credits
Term 8	CTS 2352C	Ethical Hacking	3 Credits
	CTS 2126C	Cybersecurity Analyst (CySA+)	
Term 9	CET 2688C	System Security Practitioner (SSCP)	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	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: CTS 1131C, CTS 1132C, CTS 1161C, CTS 2109C, CTS 2321C, and CTS 2664C. Students without prior professional experience are strongly encouraged to take CTS 1131C and CTS 1132C.
- 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.
- 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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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.

