# 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**<br>**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**<br>**12 Credits** | CET 1610C | Routing and Switching Essentials | 3 Credits |
| | CTS 1161C | Microsoft Windows 10 Operating Systems | 3 Credits |
| | Elective | Approved Elective (See Note 2 Below) | 3 Credits |
| | MGF 1106, or<br>  MAC 1105 | Topics in Mathematics, or<br>  College Algebra (See Note 3 Below) | 3 Credits |
| **Term 3**<br>**6-7 Credits** | CTS 2321C | Linux+ | 3 Credits |
| | Natural Sciences | Natural Sciences General Education Course (See Note 4 Below) | 3-4 Credits |
| **Term 4**<br>**12 Credits** | CTS 2353C | Networking 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**<br>**12 Credits** | CTS 2358C | Identity with Windows Server 2016 | 3 Credits |
| | CTS 2109C | Virtualization Concepts and Implementation | 3 Credits |
| | CTS 2664C | CCNA Security | 3 Credits |
| | Elective | Approved Elective (See Note 2 Below) | 3 Credits |
| **Term 6**<br>**6-7 Credits** | PSY 2012, or<br>  SYG 2000 | General Psychology, or<br>  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 1131C, CTS 1132C, and CTS 2126C. 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** | CTS 1161C | Microsoft Windows 10 Operating Systems | 3 Credits |
| | MGF 1106, or MAC 1105 | Topics in Mathematics, or College Algebra (See Note 3 Below) | 3 Credits |
| **Term 5** | CTS 2321C | Linux+ | 3 Credits |
| | Natural Sciences | Natural Sciences General Education Course (See Note 4 Below) | 3-4 Credits |
| **Term 6** | CTS 2353C | Networking 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 2358C | Identity with Windows Server 2016 | 3 Credits |
| | CTS 2109C | Virtualization Concepts and Implementation | 3 Credits |
| **Term 9** | CTS 2664C | CCNA Security | 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

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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.