

Get started on an in-demand career.



WIDE-AREA NETWORKING TECHNOLOGY

Associate of Applied Science

Wide-Area Networking technologists wire, configure, and maintain the routers, switches, and security appliances that connect home users and businesses to the global information network. These technicians maintain network LANs, WANs, and intranets.

JOB OPPORTUNITIES FOR GRADUATES

Have you ever wondered how your email gets from your computer to its destination? Or how businesses connect to one another through the World Wide Web? When your email goes where you need it to go and businesses across the world are able to connect to each other, there are a few wide-area networking technicians to thank.

Wide-Area Networking Technology offers training leading into a cutting edge CISCO career and is one of the majors offered in the Electrical Engineering and Computer Technologies department within the School Science, Technology, Engineering and Mathematics at Owens. This program trains students how to troubleshoot, repair, and maintain various portions of the World Wide Web. Students will be prepared for a variety of exiting careers that are in high demand, both locally and globally. The Wide-Area Networking program and faculty have formed an official CISCO Networking Academy.

Career pathways include: network technician, support engineer, network administrator, network designer, network engineer, and more.

SALARY

The job market for wide-area networking or CISCO technicians is showing a 12% increase from 2012-2022. The median annual wage in 2012 for a network engineer with a bachelor's degree is \$72,560 and \$40,000-\$50,000 for an associate's degree (www.bls.gov).

ACCREDITATION

Accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).



LOCATIONS

Toledo-area Campus
Findlay-area Campus

DEPARTMENT HIGHLIGHTS

Members of our Wide-Area Networking advisory team are CISCO network technicians and engineers drawn from Toledo and Findlay area businesses who are leaders in their field. They not only provide students with internship opportunities, they also give us much needed advice to keep our curriculum current.

Program Lead Instructor and CISCO Legal Main Contact Lynn Kendall, CCNA heads up this major and is the network engineer that maintains the Electrical Engineering and Computer Technologies department computer network which is separate for the Owens Community College computer network. The EECT department computer network is purposed for training CISCO network technicians and engineers.

For more information, visit www.owens.edu or call:

Office of Admissions

Toledo-area Campus - (567) 661-7777
Findlay-area Campus - (567) 429-3509

School of Science, Technology, Engineering and Mathematics

(567) 661-7457



OWENS
COMMUNITY COLLEGE

Program Curriculum

WIDE-AREA NETWORKING TECHNOLOGY

Associate of Applied Science

REQUIRED COURSES

The Age of Coursework for EET 141, EET 241, EET 280, EET 281, EET 282, EET 283, EET 284, EET 285, EET 286, EET 287, and EET 289 is 5 years - chair approval required for courses beyond that. Please refer to College Policy, Chapter 2 - Academic, 3358:11-2-22 Age of Coursework Policy.

High school and adult career-technical students who successfully complete specified technical programs are eligible to have technical credit transfer. For more information on career-technical course work that students can complete for transfer, visit The University System of Ohio Board of Regents, Career-Technical Credit Transfer (CT)2 website or contact your advisor.

1ST SEMESTER

| | | |
|---------|--------------------------------|---|
| EET 118 | C Programming | Credits: 3(Lec: 2 Lab: 3) |
| EET 100 | Fundamental DC Analysis | Credits: 3(Lec: 2 Lab: 3) |
| EET 281 | Network Fundamentals | Credits: 2(Lec: .50 Lab: 4.50) (1st 8 Week Session) |
| EET 282 | Routing Protocols and Concepts | Credits: 2(Lec: .50 Lab: 4.50) (2nd 8 Week Session) |
| STM 105 | Technology in Society | Credits: 2(Lec: 2) |
| MTH 122 | Math for Computing | Credits: 4(Lec: 4) |

2ND SEMESTER

| | | |
|---------|---|---|
| EET 130 | Computer Diagnosis | Credits: 3(Lec: 2 Lab: 3) |
| EET 218 | Java Programming | Credits: 3(Lec: 2 Lab: 3) |
| EET 283 | LAN Switching and Wireless | Credits: 2(Lec: .50 Lab: 4.50) (1st 8 Week Session) |
| EET 284 | Accessing the WAN | Credits: 2(Lec: .50 Lab: 4.50) (2nd 8 Week Session) |
| ENG 111 | Composition I* | Credits: 3(Lec: 3) |
| _____ | Social and Behavioral Sciences Elective | Credits: 3(Lec: 3) |

3RD SEMESTER

| | | |
|---------|--|---------------------------|
| EET 222 | Network Securities | Credits: 3(Lec: 2 Lab: 3) |
| | Select from: EET 285, EET 286, EET 287 for optional pathway. | |
| EET 141 | Computer Forensics I | Credits: 3(Lec: 2 Lab: 3) |
| | Select from: EET 285, EET 286, EET 287 for optional pathway. | |
| PHY 151 | Industrial Physics-Mechanics | Credits: 2(Lec: 2) |
| PHY 152 | Industrial Physics-Ht Li Sound | Credits: 2(Lec: 2) |



| | | |
|---------|---------------------------|---------------------------|
| EET 280 | Wireless LANs & VOIP/SIP | Credits: 3(Lec: 2 Lab: 3) |
| SPE 210 | Small Group Communication | Credits: 3(Lec: 3) |
| EET 175 | Network Operating Systems | Credits: 3(Lec: 2 Lab: 3) |

4TH SEMESTER

| | | |
|---------|--|---------------------------|
| EET 241 | Computer Forensics II | Credits: 3(Lec: 2 Lab: 3) |
| | Select from: EET 285, EET 286, EET 287 for optional pathway. | |
| EET 208 | UNIX Concepts | Credits: 3(Lec: 2 Lab: 3) |
| BUS 120 | Principles of Management | Credits: 3(Lec: 3) |
| EET 289 | Security Appliances | Credits: 3(Lec: 2 Lab: 3) |

*Ohio Transfer Module Course

More information about the Ohio Transfer Module Course can be found at www.ohiohighered.org/transfer/transfermodule

OTHER INFORMATION

During the first year of the program, students take the following required courses:

- EET281 and EET282, Network Fundamentals and Routing Protocols and Concepts respectively. Once these courses are completed the student is eligible to take the CISCO ICND1 certificate exam. The next two required courses during the first year of the program are EET283 and EET284, LAN Switching and Wireless and Accessing the WAN respectively. Upon completion of EET283 and EET284 the student is eligible to take the ICND2 certificate exam to get their CCNA. The alternative route to the CCNA (CISCO Certified Network Associate) license is to take EET281, EET282, EET283, and EET284 then take the longer CCNA license exam.

During the second year of the program, students may take the following courses:

- EET285, EET286, and EET287, CISCO Route, Switch, and TSHOOT respectively. Upon completion of each course individually, the student is eligible to take the three exams that lead to the CCNP (CISCO Certified Network Professional) license.

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