

## Computer Networking Technology Concentration (CNTO)

### Associate in Applied Science Degree in Computer and Networking Technology (AAS\_CNTD)

Knight Campus, Warwick only

Computers and networks continue to expand in all aspects of our personal activities to business, manufacturing, education and health care. This program provides a balanced coverage of technology fundamentals, computer hardware, computer software and networking technology. Emphasis is placed on operating principles of hardware and software, networking models, operating systems, internetworking components, and industry standards along with hands-on laboratory activities for developing practical problem-solving skills. Students develop the ability to configure and troubleshoot basic PCs, local area networks (LANs) and internetworks using routers and switches. Integrated into the program are courses that prepare students to sit for both the Cisco CCNA and the CompTIA A+. Depending on the track taken, students can sit for either the Cisco CCNP or the MCITP.

**Note:** Because several courses are required in all concentrations, students may transfer between concentrations fairly easily without losing much educational time. Consult with a faculty adviser in selecting electives to determine transferability. Many courses require prerequisites, corequisites and/or testing. [See course descriptions for details.](#)

**All students in the Computer and Networking Technology program must take the courses listed in the two charts below plus the [courses in their chosen concentration.](#)**

#### RECOMMENDED COURSE SEQUENCE

##### General Education Requirements

COURSE NO.	COURSE TITLE	COURSE NOTES	CREDITS
ENGL 2100	Technical Writing		3
MATH 1200	College Algebra		3
PHYS 1000	Conceptual Physics/Physical Science		4
COMM 1100	Public Speaking		3
<a href="#">Humanities Elective</a>		See <a href="#">this page</a> for complete listing of courses that meet this requirement.	3
Social Science Electives		See <a href="#">this page</a> for complete listing of courses that meet this requirement.	6
Total General Education Requirements Credits			22

**Major Core Requirements**

<b>COURSE NO.</b>	<b>COURSE TITLE</b>	<b>COURSE NOTES</b>	<b>CREDITS</b>
COMI 1840	Microsoft Windows Server		3
COMI 2020 OR CNVT 2100		Network Security Software Fundamentals <b>OR</b> Basic Voice Over Internet Protocol (VoIP)	3
CNVT 1000	Computer Repair A+ Hardware		3
CNVT 1010	Computer Repair A+ Software		3
CNVT 1200	Introduction to Wireless		3
CNVT 1810	Networking Technology	Offered in seven-and-a-half week sections.	3
CNVT 1820	Intermediate Networking	Offered in seven-and-a-half week sections. CNVT 1810 must be taken prior to CNVT 1820.	3
CNVT 1830	LAN Design and Management	Offered in seven-and-a-half week sections. CNVT 1820 must be taken prior to CNVT 1830. Computer Networking Technology track students must take the seven-and-a-half week sections of these courses	3
CNVT 1840	WAN Design and Management	Offered in seven-and-a-half week sections. CNVT 1830 must be taken prior to CNVT 1840. Computer Networking Technology track students must take the seven-and-a-half week sections of these courses	3
Total Major Core Requirements Credits			27

**In addition to general education and core program requirements, students must complete courses in their chosen concentration.**

**Computer Networking Technology Concentration Requirements**

<b>COURSE NO.</b>	<b>COURSE TITLE</b>	<b>COURSE NOTES</b>	<b>CREDITS</b>
CNVT 2200	Network Security Hardware		4
<b>Complete two of the following courses:</b>			
CNVT 2010	Cisco CCNP Route	This course is offered in the Spring semester only.	5
CNVT 2030	Cisco CCNP Switch	This course is offered in the Fall semester only.	5
CNVT 2060	CCNP TSHOOT: Cisco IP Network	This course is offered on a demand basis.	5
Total Computer Networking Technology Concentration Requirements Credits			19

Total Program Credits 63