Computer & Networking Tech (CNT)

Courses

CNT A160 PC Operating Systems 3 Credits
Develops basic understanding of command line, desktop, and server operating systems. Includes computer programming, architecture, and hardware necessary to understand the operating system interactions.

CNT A162 PC Architecture and Building 3 Credits
Develops skills required to evaluate, install and troubleshoot software and hardware computer equipment. Introduces architecture and hardware associated with microcomputer operation, including, but not limited to, motherboards, CPUs, chipsets, memory, buses, expansion slots and resource allocations.

CNT A165 Customer Service Fundamentals 1 Credit
Introduces basic customer service principles, including relationships, perceptions, telephone techniques, quality, ethics, record keeping, interpersonal relationships, and teamwork.

CNT A168 Computer User Support and Help Desk 3 Credits
Overview of user support systems and help desk functions in an enterprise environment. Examines user support from the perspective of end users and develops skills for ethical customer services, critical thinking, troubleshooting and decision-making. Includes identifying typical problems and needs assessment for installation, training and documentation.

CNT A170 CCNA 1 4 Credits
This is the first of four Cisco Networking Academy courses covering the material for the Cisco Certified Networking Associate (CCNA) Routing and Switching certification. Covers networking fundamentals and develops basic skills in installing, addressing and troubleshooting local area networks. 

Registration Restrictions: Appropriate score on reading placement test for placement into WRTG A111 is required.

CNT A180 PC Peripherals, Storage and A+ Certification 4 Credits
Covers PC operating systems, peripheral devices, auxiliary storage devices and the interfaces used to connect them to the personal computer. Also covers the fundamental topics necessary to prepare for the CompTIA A+ Certification exams.

CNT A183 Local Area Networks 3 Credits
Presents the fundamentals of Local Area Networking, including topologies, protocols, computer and delivery hardware, Ethernet, network operating systems, LAN assessment, and other related software. Covers the fundamental networking topics necessary to prepare for the CompTIA Net+ Exam.

Prerequisites: CNT A160 and CNT A162.

CNT A210 PC Technician Fundamentals 3 Credits
Introduction to the principles of personal computer hardware/software maintenance and troubleshooting. The course is designed to give the student equivalent experience of a PC technician that has been working for six months.

Prerequisites: CIS A105.

CNT A212 Network Technician Fundamentals 3 Credits
Introduces the principles of developing, installing, maintaining and troubleshooting Peer-to-Peer, Local Area, and Wide Area Networks. Designed to serve the needs of advanced computer end-users interested in mastering broad, vendor-independent networking concepts. Provides students with the knowledge and experience required to pass the CompTIA Network + exam.

Prerequisites: CNT A210.

CNT A240 Industry PC Configuration Essentials 2 Credits
Introduces personal computer configuration essentials. Includes installation, configuration and support of personal computers in a mixed enterprise environment.

Prerequisites: CNT A170 with a minimum grade of C or CNT A183 with a minimum grade of C or CNT A212 with a minimum grade of C.

CNT A241 Administering and Supporting Industry Network Infrastructure 3 Credits
Provides an introduction to network infrastructure in a mixed enterprise environment.

Prerequisites: CNT A240 with a minimum grade of C.

CNT A242 Industry Network Directory Configuration 3 Credits
Provides an introduction for installing, configuring and deploying application services in an enterprise networked environment.

Prerequisites: CNT A241 with a minimum grade of C.

CNT A243 Industry Application Infrastructure 3 Credits
Provides an introduction to application support and deployment in an enterprise-networked environment.

Prerequisites: CNT A241 with a minimum grade of C or CNT A242 with a minimum grade of C.

CNT A244 Designing Secure Windows Networks 3 Credits
Provides students with the knowledge and skills to design a security framework for small, medium, and enterprise networks using Microsoft Windows technologies.

Prerequisites: CNT A242.

CNT A246 Windows Network Infrastructure Design 2 Credits
Provides students with the knowledge and skills to design a Microsoft Windows networking services infrastructure design that supports the network applications required for the needs of an organization.

Prerequisites: CNT A242.

CNT A261 CCNA 2 4 Credits
This is the second of four Cisco Networking Academy courses covering the material for the Cisco Certified Networking Associate (CCNA) Routing and Switching certification. Covers the architecture, components, operations, configuration, and troubleshooting of routers and switches in a small network.

Registration Restrictions: Students may enroll concurrently with CNT A170 when offered in half-semester format, but must meet prerequisite grade in CNT A170 when CNT A261 begins.

Prerequisites: CNT A170 with a minimum grade of C or concurrent enrollment.
CNT A262 Computer Technical Support 2 Credits
Develops skills necessary for evaluating and implementing various technical support functions, including hardware and software needs assessments, training development, preventive maintenance, and effective communication and documentation.
**Prerequisites:** CNT A165.

CNT A264 Introduction to Information Security 3 Credits
Provides students with an understanding of the core concepts that relate to the practice of network security. This course will help prepare students for the CompTIA Security+ exam.
**Prerequisites:** CNT A212 or CNT A261.

CNT A270 CCNA 3 4 Credits
This is the third of four Cisco Networking Academy courses covering the material for the Cisco Certified Networking Associate (CCNA) Routing and Switching certification. Covers the architecture, components, operations, configuration and troubleshooting of routers and switches in a larger, more complex network.
**Prerequisites:** CNT A261 with a minimum grade of C.

CNT A271 CCNA 4 4 Credits
This is the fourth of four Cisco Networking Academy courses covering the material for the Cisco Certified Networking Associate (CCNA) Routing and Switching certification. Discusses, configures and troubleshoots the WAN technologies and network services required by converged applications in a complex network.
**Registration Restrictions:** Students may enroll concurrently with CNT A270 when offered in half-semester format, but must meet prerequisite grade in CNT A270 when CNT A271 begins.
**Prerequisites:** CNT A270 with a minimum grade of C or concurrent enrollment.

CNT A275 Information Technology Project Management 2 Credits
Introduces information technology project management fundamentals. Develops skills required to work with stakeholders and information technology processes. Develops skills in leadership and team participation. Includes IT project planning, design, team skills, proposals, implementation, reporting and completion.
**Registration Restrictions:** Satisfactory completion of 12 CNT credit hours with a minimum grade of C.
**Prerequisites:** WRTG A212 with a minimum grade of C.

CNT A276 Individual Technical Project 1-3 Credits
Covers development, implementation and completion of a project based on a relevant technological issue. Student works closely with faculty to produce and end product and report.
**Special Note:** Faculty permission and working knowledge of CNT topics required.
**Prerequisites:** CNT A261.

CNT A280 Server Operating Systems 3 Credits
Develops server operating system basics. Includes installation, troubleshooting, creation and administration of user accounts and resources, and remote and internet accounts.
**Special Note:** A CompTIA Network+ Certificate may be substituted for the CNT A183 or CNT A212 prerequisite, with department approval.
**Prerequisites:** CNT A261 and (CNT A183 or CNT A212).

CNT A282 Industry Workplace Experience 1-3 Credits
Provides supervised workplace experience in industry settings. Integrates advanced-level knowledge and practice to demonstrate skill competencies.
**Special Note:** Requires instructor permission and successful completion of 12 credits in the CNT program.

CNT A290 Selected Topics in Information Technology 1-4 Credits
Covers various intermediate to advanced topics in information technology.
**Special Note:** Prerequisites vary by topic. May be repeated with a change in subtitle.

CNT A390 Selected Topics in Computer and Networking Technology 1-4 Credits
Offers selected topics in computers and networking pertaining to state-of-the-art technology and trends. Course content is determined by current trends, new technologies, and student and employer needs.
**Special Note:** Prerequisites vary by topic. May be repeated with a change in subtitle.