COMPUTER SERV & NETWORK TECHNOLOGY (2600)

2600:100. Basic Electronics for Technicians. (5 Credits)

2600:125. Digital Electronics for Technicians. (4 Credits)
Prerequisite: 2600:100. Mathematical principles of electronic switching for logic-based systems and examination of methods of switching syntheses.

2600:160. Personal Computer Servicing. (4 Credits)
Prerequisites: 2600:100 and 2440:145. Techniques for isolating and correcting faults in personal computers including the use of software diagnostic routines and electronic test equipment.

2600:180. Microprocessor Service Practicum. (2 Credits)
Corequisite: 2600:160. Work experience in the repair of microprocessor-based equipment using failed or malfunctioning equipment.

2600:185. Microprocessor Service Practicum Seminar. (1 Credit)
Corequisite: 2600:180. Integrates on-the-job technical experience acquired in 2600:180 with the fundamental concepts and skills acquired through course work.

2600:245. Network Operating Systems. (3 Credits)
Prerequisite: 2600:270. Examination of contemporary network operating systems. Provides skills to competently install and perform entry level management tasks. Includes troubleshooting TCP/IP, DHCP, DNS, WINS, and Network Access. Laboratory.

2600:252. Microsoft Active Directory. (3 Credits)
Prerequisite: 2600:245. Provides the knowledge and skills to plan, implement, and troubleshoot Microsoft Windows Server Active Directory service infrastructure including domain structure, site replication, and account strategies. Laboratory.

2600:254. Microsoft Networking VI. (1-4 Credits)
Prerequisite: 2600:240 or 2600:242. Provides the knowledge and skills to design a Microsoft Active Directory service and network infrastructure for a Microsoft Windows Server environment.

2600:256. Microsoft Networking VII. (1-4 Credits)
Prerequisite: 2600:240 or 2600:242. Provides the knowledge and skills to analyze business requirements for security and to design a security solution that meets those requirements in a Windows network environment.

2600:261. Network Security. (1-4 Credits)
Prerequisite: 2600:270. Provides the knowledge and skills to identify, troubleshoot, and implement network security, such as: general security concepts, communications security, infrastructure security, cryptography, and operational/organizational security.

2600:262. Linux Networking. (1-4 Credits)
Prerequisite: 2600:270. Provides the knowledge and skills needed to install, configure, administer, and troubleshoot Linux network operating systems including: licenses, administration, network configuration, and network protocol and security management.

2600:270. Introduction to Network Technology. (3 Credits)
Prerequisite: 2440:145. Provides students with an excellent foundation upon which to build their network training. Covers basic terms and concepts of computer networking.

2600:272. Network Hardware I. (3 Credits)
Corequisite: 2600:270. Study of contemporary networking hardware used in Local Area Networks and Wide Area Networks. Emphasis on routers and routing protocols. Use of simulation software encouraged. Laboratory.

2600:274. Network Hardware II. (3 Credits)
Prerequisite: 2600:272. A second course in contemporary networking hardware. Emphasis on switches used in LANs and routers used in WANs. Use of simulation software is encouraged. Laboratory.

2600:276. Advanced Network Technologies. (3 Credits)
Prerequisite: 2600:274. Examination of convergence technologies and the integration into LAN/WAN environments. Wireless networking and Voice over IP (VoIP) will be studied. Use of simulation software is included. Laboratory.

2600:280. Field Experience in Networking and Computer Support. (1-3 Credits)
Prerequisite: Permission. Paid field work activity in data processing or computer networking applications related to an occupational objective. One credit requires 180 hours of work. May be repeated up to 3 credits maximum.

2600:290. Special Topics: Computer Services & Networking. (1-5 Credits)
Prerequisite: Permission. This course is designed to allow for special topics and subject areas of particular interest to students.