

Program Name: Networking Track II	Outcomes	IST 108 Microsoft Windows	IST 109 UNIX Operating System	IST 150 PC Tech—Repair & Troubleshooting	IST 151 PC Tech—Operating Systems	IST 154 Networking Basics	IST 155 Networking I	IST 156 Networking II
Outcome #1	Think critically	Implement a functional Windows XP workstation operating environment Improve performance, add features and increase security	Demonstrate effective system administration techniques	Students will be able to assemble, setup, and upgrade personal computer systems; Students will be able to diagnose, isolate faulty components; Prepare for certification, specifically: A+	Students will be able to install, configure and maintain the operating system in both single and dual boot configurations within the Windows family of operating systems; Students will be able to perform advanced file management operations in order to organize, maintain personal computer systems in a workplace or home environment; Students will utilize system utilities to allocate and organize storage and manage peripheral devices; Prepare for certification, specifically: A+	Score a passing grade on a simulated Network+ exam by CompTIA	Successfully pass Cisco exam by Cisco	Successfully pass practical lab exam Successfully pass Cisco II exam by Cisco
Outcome #2	Communicate effectively with both verbal and written forms	Prevent data loss and facilitate security through use of backups, firewalls, antivirus protection	Write efficient, effective scripts and documentation			Submit lab reports in standard format in Blackboard		
Outcome #3	Perform and share cooperatively in teams or groups		Demonstrate effective system administration techniques			Work in teams of 2 for lab assignments		
Outcome #4	Review and practice computer and network etiquette and ethics found in working environments		Demonstrate effective system administration techniques			Practice network etiquette during lab exercises		
Outcome #5	Administer and troubleshoot a network infrastructure	Perform basic Windows XP diagnostics using tools and utilities.		Students will demonstrate customer service, troubleshooting and preventative maintenance skills; Prepare for certification, specifically: A+	Students will demonstrate customer service, troubleshooting and preventative maintenance skills; Prepare for certification, specifically: A+	Administer a windows network environment including users and group management. Solve problems in a network environment including cabling and nic cards	Install and maintain router configuration environment. Troubleshoot cabling problems within a network.	Install and maintain router configuration environment. Troubleshoot routing problems within a network.
Outcome #6	Evaluate best practices in security concepts to maintain confidentiality, integrity and availability of computer systems	Practice good file management and disk organization . Demonstrate a working knowledge of the Command line and the Registry Prevent data loss and facilitate security through use of backups, firewalls, antivirus protection.	Choose appropriate UNIX operating system commands to make effective use of the environment to solve problems			Discuss importance of firewalls within a networked environment. Solve problems involving subnets.		Incorporate new router theories into routers.

Program Name: Networking Track II	Outcomes	IST 160 Fundamentals of Security	IST 253 TCP/IP	IST 254 Computer Networks	IST 261 MCSA/E: Windows Server	IST 269 Internship
Outcome #1	Think critically	Score a passing grade on a simulated Security+ exam by CompTIA	Analyze packet traffic to determine type of network communication	Integrate a network component into the class capstone project	Score a passing grade on a simulated Windows Server exam by Microsoft	
Outcome #2	Communicate effectively with both verbal and written forms	Submit lab reports in standard format in Blackboard	Submit lab reports in standard format in Blackboard	Design and produce a manual for their network component of the class project		
Outcome #3	Perform and share cooperatively in teams or groups		Design and carry out a class project	Effectively participate and contribute to capstone project		
Outcome #4	Review and practice computer and network etiquette and ethics found in working environments			Practice network and computer etiquette in project		
Outcome #5	Administer and troubleshoot a network infrastructure	Evaluate security risks on a computer workstation	Design and implement a virtual network environment. Use the virtual network to troubleshoot network conflicts	Administer their chosen network component of the capstone project	Implement and troubleshoot Windows Server into the network environment	
Outcome #6	Evaluate best practices in security concepts to maintain confidentiality, integrity and availability of computer systems	Discuss security policies that should be in practice in organizations	Implement security practices within virtual network	Address current security issues in project. Include scalability within projects.	When designing and implementing network environments follow best practices	