		IST 108 Microsoft Windows	IST 109 UNIX Operating System	IST 154 Networking Basics	IST 155 Networking I	IST 156 Networking II
Program Name: AAS Cyber Security	Outcomes					
Outcome #1	Think critically	Implement a functional Windows XP workstation operating environment Improve performance, add features and increase security	Demonstrate effective system administration techniques	Score a passing grade on a simulated Network+ exam by CompTIA	Sucessfully pass Cisco I 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.		Administer a windows network environment including users and group management. Solve problems in a network enviornment 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.		Discuss importance of firewalls within a networked environment. Solve problems involving subnets.		Incorporate new router threories into routers.

Network Track II

Program Name: AAS Cyber Security	Outcomes	IST 160 Fundamentals of Security	CYB 210 Ethics in the Information Age	CYB 225 Tactical Perimeter Defense	CYB 240 Ethical Hacking Fundamentals	CYB 245 Introduction to Penetration	IST 261 MCSA/E: Windows Server
Outcome #1	Think critically	Score a passing grade on a simulated Security+ exam by CompTIA	Read the Association Information Technology Professionals Code of Ethics and Standard of Conduct. Write a paper indicating how the student exemplifies the points within the Code of Ethics	Given a scenario of a network system identify vulnerabilities and recommend mitigating these vulnerabilities.	In closed network environment or virtual network environment employ various reconnaissance, scanning, and enumeration techniques to obtain information regarding a target network system.	Individually and on a team defend and maintain a typical network environment (closed) that is under hacker attack	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	Select from a list of Case Studies, research scenario and answer discussion questions regarding the case. Present case and findings to class.				
Outcome #3	Perform and share cooperatively in teams or groups		As a member of a team select from a list of Case Studies, research scenario and answer discussion questions regarding the case. Present case and findings to class.	As part of a group create a virtual network with servers, firewalls, VPNs and intrusion detection devices.	Work as part of a team to scan a closed network to determine vulnerabilities of the system.	As a member of a team defend a closed network environemnt against attack	
Outcome #4	Review and practice computer and network etiquette and ethics found in working environments		Participate in class discussion/debates regarding ethics in the IT field	Upon completion of lab work return the lab system to its original state.	Upon completion of lab work return the lab system to its original state.	Upon completion of lab work return the lab system to its original state.	
Outcome #5	Administer and troubleshoot a network infrastructure	Evaluate security risks on a computer workstation		Strategically place firewalls and routers in the network to better monitor network traffic	Scan a network system, determine it's vulnerabilities, compromise the system and establish access to this system	Defend a closed network. Scan a network for vulnerabilities	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		Given a scenario of a network system identify vulnerabilities and recommend mitigating these vulnerabilities.	Disuss weaknesses in network environments that can be exploited.	Discuss the "Defense in Depth" approach to network defense.	When designing and implementing network environments follow best practices

Network Track II 2