Course Outcomes Guide

Course Title: IST 154 Networking Basics

Course Instructor(s): Steve Shank

Programs: IST Networking Track I, IST Networking Track II, Forensics

Expected Learning Outcomes

- Think critically
- Communicate effectively with both verbal and written forms
- Perform and share cooperatively in team projects
- Review and practice computer and network etiquette and ethics found in working environments
- Administer a network infrastructure
- Troubleshoot problems in an existing network environment
- Evaluate and implement new and future technologies into current system
- Install, configure, use and manage TCP/IP on a working network
- Evaluate best practices in security concepts to maintain confidentiality, integrity and availability of computer systems

Assessment (How do students demonstrate achievement of these outcomes?)

Satisfactory scores on exams and projects.

Satisfactory scores on exams modeled after industry standard certification exams. Models are developed from the following certification exams: CompTia Net+.

Completion of Net+ lab sim by TestOut. This includes lectures, labs, and exams.

Participation in class discussion boards. Each student creates a new thread on the current topic and also comments on another student's thread.

Validation (What methods are used to validate your assessment?)

1. Approval of Information Systems Technology Advisory Council

2. Tests comparable to Industry Standard Certification Exam.

3. Faculty Review

Results (What do the data show?)
100% of students completing course requirements successfully complete coursework

Feedback from students going on to take the CompTIA Net+ exam say the labsim by TestOut is very helpful in passing the exam.

Student feedback from students in other program courses state IST 154 is helpful in their understanding and completing of later courses.

Advisory group advises to incorporate more practical concepts into the curriculum when possible.

Follow-up (How have you used the data to improve student learning?)
Place a greater focus on completing simulated CompTIA Net+ exams.
Identify new textbook that presents network material in a more practical vs theoretical approach.
Include assignments that utilize real and/or simulated network operating systems

Budget Justification
(What resources are necessary to improve student learning?)

PC lab hardware; switches, routers, projection unit, cabling, tools, printers, PCs, servers
Wireless hardware and software
Security hardware and software
Simulation software, Virtual PC licenses.
LabSim Software.
Course Management software
Classroom Management system software
Computer based Portfolio system