Course Title: IST 156: Networking II

Course Instructor(s): Jack Drooger

Programs: Network Administration, Cyber Security

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 and troubleshoot a network infrastructure

- 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: Cisco Academy CCNA.

Completion of hands-on lab assignments created by Cisco Academy using Cisco routers and switches.

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

1. Approval of Information Systems Technology Advisory Council

2. Tests comparable to Industry Standard Certification Exams.

3. Faculty Review

4. Cisco Academy assessment

Results (What do the data show?)
IST 156 has only been taught in the second 7.5 weeks of the Fall Semester. This is due to the difficulty in obtaining qualified instructors because of the strict requirements the Cisco Academy places on them.

Since the 2011 fall semester a total of 62 students have taken IST155 Network II.

58 (94%) of the students completed the course and 57 (93%) were successful.

The grade distribution is as follows:

A	23	37%
B	24	39%
C	10	16%
D	0	0%
F	3	5%

There was 1 audit and 1 withdrew from the course.

IST 156 is one of a set of two courses created by Cisco Academy that map to the Cisco CCENT certification. Curriculum and assignments are updated by the Cisco Academy in an on-going basis.

Follow-up (How have you used the data to improve student learning?)
93% of students completing course requirements successfully complete coursework

Curriculum is frequently updated to map to current objectives of the Cisco Certificated Network Entry Technician certification.

The Cisco classes are now housed in the first floor of the STEM building (STEM 110) and have been an integral part of the networking and security curriculum.

New equipment (routers and switches) has recently been purchased.

Program requirements have been reduced to 60 credits. Program no longer requires the four courses required for a CCNA certification. Cisco offers a CCENT certificate that only requires two courses (IST 155 and IST 156).

Various class formats are provided for students to choose the learning format that best fits them. Classes are presented in 7.5 week format as well as 15 week format.

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

PC lab hardware; projection unit, cabling, tools, printer, PCs, servers
Cisco routers and switchers and firewalls.
Course Management software