**Course Title: IST 255 CCNA3: Advanced Routers**

**Course Instructor(s): Jack Drooger**

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

**Expected Learning Outcomes**

- Think critically

- Communicate effectively with both verbal and written forms

- Administer a network infrastructure

- Troubleshoot problems in an existing network environment

- Evaluate and implement new and future technologies into current system

**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?)
100% of students completing course requirements successfully complete coursework

IST 255 is one of a set of four courses created by Cisco Academy that map to the Cisco CCNA 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?)
Curriculum is frequently updated to map to current objectives of the Cisco Certificated Network Associate certification.

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

PC lab hardware; projection unit, cabling, tools, printers, PCs, servers
Cisco routers and switchers.
Course Management software
Classroom Management system software