

Course Outcomes Guide

Course Title: IST 256 CCNA4: WAN Fundamentals

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

Course Outcomes Guide

Results (What do the data show?)

85% of students completing course requirements successfully complete coursework

IST 256 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 Certified Network Associate certification.

(To do)

Continue to update Cisco curriculum and Cisco hardware

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