

ITNW 2453

Advanced Routing and Switching

INSTRUCTOR: Tawny Lamb

OFFICE LOCATION: Room 509

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PREREQUISITE: None but basic router proficiency assumed.

TEXTBOOK USED: *CCNA Guide to Cisco Networking*, Fourth Edition by Cannon, Cudle, and Chiarella. Course Technology. ISBN 978-1-4188-3705-1 and LabSim code for the CCNA curriculum, ISBN. 978-1-935080-00-8.

OTHER MATERIALS: a computer with Internet access running MS Windows XP or later, a pen drive (USB) or CDs for storing work, pens and paper for journal. (The college computer labs are available.)

HOURS: Four semester hours of college credit is given. Three lecture hours. Two lab hours.

COURSE DESCRIPTION: Implementation, operation, and troubleshooting of switched and routed environments. Emphasizes advanced routing protocols, Multi Protocol Label Switching (MPLS), and advanced security.

This class is not intended for transfer to a four-year institution.

LEARNING OUTCOMES: Students will be able to:

1. Implement advanced routing protocols.
2. Configure route filtering and redistribution, advanced security, and scalable multilayer-switched LANs.
3. Implement appropriate technologies to build a scalable routed network.
4. Implement campus networks using multilayer switching technologies.
5. Analyze traffic flow, reliability, redundancy, and performance for campus LANs, routed and switched WANs, and remote access networks.

ATTENDANCE: Students are expected to be present for all class meetings (see "Attendance" in the student handbook for Temple College) and are responsible for any material covered and any assignments made in the case of an absence. If you quit attending class, you should drop the course. I reserve the right to drop any student who has missed four or more classes.

EXPECTATIONS: If you must miss a due date, notify me BEFORE that date to make arrangements for turning in assignments. If you do not notify me in advance, **no late work will be accepted** (this includes exams). This is a hybrid class which means all homework and exam due dates are posted on D2L.

You will be expected to conduct yourself in a professional manner at all times in this class. Professionalism in the classroom includes but is not limited to:

- Punctuality (The classroom doors may be locked once the lecture or classroom course content begins. This is for the safety of the students and the instructor. Students will not be allowed late admittance into the class.)
- Civility and courtesy towards everyone in the class

EVALUATION: Final grades will be made up of Tests, Labs, and Homework as follows:

Test Average	= 50% of Final Grade
Lab Assignments	= 30% of Final Grade
Review Questions	= 20% of Final Grade

GRADING SCALE: Final grades will be assigned as follows:

90 and above	= A
80 to 89	= B
70 to 79	= C
60 to 69	= D
Below 60	= F

ACADEMIC INTEGRITY: Academic integrity will be expected of students at all times. Your work must be your own, not shared with or copied from other students. Please refer to the section on academic integrity in the TC Student Handbook for further details.

DISRUPTIVE BEHAVIOR: Disruptive behavior will not be tolerated. Depending on the situation the student may be warned once about their negative behavior. Continued disruptive behavior may result in the student being asked to leave the class. Once removed, the only way to return to class is with a public apology in front of the rest of the class. See the Student Handbook for a more detailed discussion of disruptive behavior.

CLASSROOM ETIQUETTE: Pagers and cell phones will be turned off or set to vibrate during class. Please show courtesy to the class by restricting conversation to in-class topics, and raise your hand to gain attention when asking a question or raising a point of discussion.

DEPARTMENT POLICY: It is the policy of the Computer Information Systems department that no unauthorized personnel are allowed in any of the computer rooms (such as a child of a student taking a class). An authorized person is a student enrolled in a computer information systems class. Violation of this policy could result in you losing your lab privileges.

Instructor reserves the right to modify course requirements at any time based on the professional judgment of the instructor.