

ITSY 2301

Firewalls and Network Security

INSTRUCTOR: Tawny Lamb
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PREREQUISITE: None but ITNW 1448 or ITNW 2413 recommended.

TEXTBOOK: Guide to Tactical Perimeter Defense: Becoming a Security Network Specialist.
Authors – Randy and Dawn Weaver; Course Technology Publishing; ISBN 978-1-423-5630-6.

OTHER MATERIALS: a computer with Internet access (the college computer labs are available), pen drive or CDs for storing work, spiral notebook for lab.

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

COURSE DESCRIPTION: Identify elements of firewall design, types of security threats and responses to security attacks. Use best practices to design, implement, and monitor a network security plan. Examine security incident postmortem reporting and ongoing network security activities.

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

LEARNING OUTCOMES: Demonstrate system security skills through firewall implementation and testing; use system tools, practices, and relevant technologies to implement a security plan; evaluate practices, tools, and technologies to identify security breaches, sources of attacks, and protect mission critical systems; establish an appropriate level of security based on an analysis of security logs; and use relevant tools to secure a network, respond to and follow up on various types of attacks.

ATTENDANCE: Students are expected to be present for all class meetings (see "ATTENDANCE" in the student handbook for Temple College). Students are also expected to attend all labs 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.

LAB ETIQUETTE: Pagers and cell phones will be turned off in Temple College labs and classrooms. Please show courtesy to others by restricting conversation to course topics, and raise your hand to gain attention when asking a question or need help of the lab assistant or instructor.

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.

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

Test Average	= 40% of Final Grade
Review Questions	= 20% of Final Grade
Lab Problems	= 30% of Final Grade
Case Project	= 10% 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.