


**Information Technology and Administrative Management Department**  
**www.cwu.edu/~ITAM**

	<p><b>IT 467 (Formerly IT 457)</b>  <b>Network Security</b>  <b>Course Syllabus - 4 credits</b></p>
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Dr. Christine Bernadas

**Office:** Shaw-Smyser - 235  
**Office Hours:** Varies by quarter. Call or e-mail instructor  
**Office Telephone:** 509.963.1255  
**CWU E-Mail:** bernadac@cwu.edu

**Course Description:** Analysis and design of computer network security in business environment.

**Course Objective:** This course teaches students, through lectures, discussions, scenarios, review questions, cases, and labs, the knowledge necessary to understand core concepts of computer security. The chapters in the book walk you through key concepts of understanding threats to a computing infrastructure, securing a network infrastructure, understanding encryption technologies, securing communications and applications, and responding to incidents. It was developed for students who want to learn how to create and maintain a secure network infrastructure. Some of these students might also be interested in taking the Security+ Certification exam administered by the Computing Technology Industry Association (CompTIA).

**Learner Outcomes:**

Learner Outcomes	Assessment
Upon successful completion of this course, the student should be able to:	
Address security threats and vulnerability	Lab 1, exam 1
Create security baseline	Lab 2, exam 1
Understand and use access control and authentication	Lab 3, exam 1
Understand and use encryption	Lab 4 and exam 1
Understand and use a public key infrastructure	Lab 5, exam 1
Secure the network infrastructure	Lab 6, exam 1
Secure communications	Lab 7 and exam 2
Secure network applications	Lab 8, exam 2
Secure internet messaging	Lab 9 and exam 2
Secure network perimeter	Lab 10, exam 2
Maintain operational security	Lab 11, exam 2
Maintain organizational security	Lab 12 and exam 2
Detect and respond to incidents	Lab 13 and exam 2
Write better	Labs and case

Think critically and justify his/her opinion	Labs, exams, and case (presentation)
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**Required Texts:** Microsoft Official Academic Course (2006), or **most recent edition** *ALS Security+ Certification Package*, Wiley. ISBN: 978-0-470-06766-6

**Instructional Methods:**

Lectures, in-class labs, discussions, and cases will be used to aid in the understanding of network security. Two exams will directly assess your understanding and your skill development. Cases put students in real life situations and will also help you in the preparation of the exams (Note: check the end of each chapter in the textbook to help you to prepare exams).