

# Network Security Fundamentals

## Middlesex Community College

**Instructor:** George Dialectakis  
**Email:** [gdialectakis@mcc.commnet.edu](mailto:gdialectakis@mcc.commnet.edu)  
**Office Hours:** by appointment

**WebCT Vista:** <http://myCommNet.edu>  
**BlackBoard:** <https://ctccs.blackboard.com>  
**Cengage:** <https://login.cengage.com>

**Fall 2018**  
**Tue @ 6:35-8:05 pm Hybrid**  
**Wheaton Hall #306**

### Course Description

Security Fundamentals is an advanced class in the Computer Information Technology. The course provides the students with an overview of how security fundamentals are designed and implemented. The student will learn all aspects of network and computer security required in today's businesses. Simulation web based labs are done in the class to provide the student with production related security situations.

This course is designed to meet the needs of students who want to master practical network and computer security. Topics include: malware attacks, application and network attacks, vulnerability assessments for mitigating attacks, data security, network security, wireless network security, authentication and account management, access control fundamentals, basic and advanced cryptography for protecting data, business continuity model, and risk mitigation procedures. This course begins to prepare students for security certification exams.

Prerequisites: CST\*120 or taken concurrently. (3 credits)

### Textbook

*Bundle containing Book + MindTap Subscription:*

**CompTIA Security+ Guide to Network Security Fundamentals, 6th + MindTap, 1 term (6 months)**

Author: Ciampa

PAC 9781337582995

Copyright Year: 2017

Publisher: Cengage Learning

*If you purchase only the textbook, then you need MindTap:*

MindTap Information Security, 1 term (6 months) PAC for Ciampa's CompTIA Security+ Guide to Network Security Fundamentals

ISBN: 9781337289313

*If you purchase only MindTap, then you need the textbook:*

Ciampa - CompTIA Security+ Guide to Network Security Fundamentals 6e

ISBN: 9781337288781

### Supplemental Reading & Online Resources

Instructor's Website: <http://t.GDnetSecurity.net/>

Fundamentals of Network Security – Eric Maiwald – McGraw Hill

All-in-One CISSP Certification – Shon Harris – McGraw Hill

## Email

- If you have any questions about the course or need assistance, please contact me in person before/after the class or by appointment, or by e-mail at any time.
- When sending emails, please prefix the subject line as “CST-270”.

## Grading

Class Participation	6%
Homework	15%
Labs	25%
Tests / Quizzes	39%
Final Exam	15%

Dates & Times as shown in the “Student Coursework” handout, and the MXCC Calendar
---

A plus/minus letter based system will be used for final grading.

Note: To view the results of your grades for test, homeworks, labs in Blackboard, you will need to go under the section “My Grades”

## Attendance

- Attendance and participation in every class is expected and essential to your learning as well as the learning of others in the class. Your learning in this experience-oriented class requires your involvement. Personal and educational experience cannot be made up! The active engagement of everyone in the class is central to create a learning atmosphere that is significant to your success.
- Missing classes will affect your grade due to missing material required for assignments and exams.
- Students who miss class are responsible for obtaining notes and assignments from a classmate.
- Only excused absences are allowed and you are expected to give the instructor advanced written notice via email, or as soon as is practical.
- Student feedback is important to know where a student stands as we progress through the material.

## Assignments

Please see attachment. It is also available on Blackboard along with the Syllabus

- All assignments (paper or electronic) are due at the beginning of the class.
- Please place printed assignments on instructor’s desk before the class begins.
- Use blue or black ink only when writing. Do not use red ink.
- Instructor has the right to reassign students to a partner for lab work.

## Late Assignments

- Late assignments (homework/labs) are not accepted. Hand in what you have completed for partial credit. Otherwise the grade is a zero.
- Lack of your attendance doesn’t change an assignment’s due date. Assignments can be submitted earlier via email (MS-Word attachment). Instructor pre-approval is required.
- There are no makeups for homework or labs. The lowest homework / labs (combination) grade will be dropped.
- Tests may include lab material.

## Missed Tests

- There are no makeup exams.
- For the first test that is missed, the final exam will count double. The second test that is missed will receive a grade of zero.
- Class absence is not an excuse for missing an announced exam.

## Withdrawal

- A student may withdraw from any course after the add/drop period, until the end of the 11th week of the semester (for the Fall and Spring semesters). This deadline is published in the Academic Calendar. The withdrawal deadline for accelerated courses (late start/early end, winter, and summer) is the date at which 75% of the total course time has been completed. A student must take the responsibility for initiating and completing a withdrawal. It is in the best interest of the student to discuss a withdrawal with his or her academic advisor, and/or the instructor of the course. A student who wishes to withdraw from a course must:
  - Obtain a withdrawal form from the Records Office,
  - Fill in and sign the form,
  - Obtain the signature of the course instructor, and (if applicable) financial aid staff member and/or
  - veterans counselor, and
  - Return the completed form to the Records Office prior to the deadline.
  - A student who is taking an online course and is unable to come to campus, should contact the course
  - instructor to request a withdrawal electronically, prior to the deadline.
  - A student who wishes to completely withdraw from MxCC must notify the Records Office of that intention. The College prefers the student to come in personally and obtain signatures as described above. However, notification may be made in writing.
  - A withdrawal will be recorded as a “W” on the student’s transcript. Withdrawing from a course makes the student ineligible for Dean’s List recognition in that semester.
  - A student who misses the withdrawal deadline, and who has extenuating circumstances, may choose to file an “Appeal for Late Withdrawal” form with the Dean of Academic Affairs. This form must be signed by the instructor indicating his/her permission for withdrawal before the appeal will be considered.

## Incomplete/No Grade

- A grade of Incomplete is not an option.
- If you register for the class but never attend class, you will receive a grade “N” (meaning “no grade”)

## Audit

- A student who wishes to change from credit to audit status must request this from the Registrar’s office within the first four weeks of the course. Students auditing a course may not change to credit status. Full tuition and fees are charged for audited courses. Financial aid does not cover audited classes.

## Academic Integrity

- Students may work together on homework assignments and projects, however plagiarism is strictly prohibited. Therefore, credit should be given for any assistance received.
- Should you use other reference sources for your reposts, make sure you provide citations for the source from which you obtained information.
- Plagiarism is a serious violation of academic standards and has serious academic consequences.
- Cheating on tests, quizzes or assignments earns a grade of zero.
- The instructor reserves the right to question any student on his/her understanding of any submitted work.
- For information about the college’s policies and procedures regarding academic honesty, accessibility/disability services, attendance, audio-recording in the classroom, grade appeals, plagiarism, religious accommodations, weather/emergency closings, and more, please go to the following website: [www.mxcc.edu/catalog/syllabus-policies/](http://www.mxcc.edu/catalog/syllabus-policies/)



### Classroom Etiquette

- Please leave cell phones on vibrate. If you have to answer an emergency call, leave the room and either close the door behind you or walk far enough down the hallway so your conversation doesn't disturb the class.
- No food, drink or smoking is allowed in the classroom. We need to protect the computers.
- Please arrive early to class and do not prepare to leave early. Should you need to arrive late or leave early, please be courteous and minimize the disturbance to the class.
- No text messaging, checking emails, listening to music, or surfing the web is allowed during class. Please be courteous and do not disturb your colleagues with course unrelated talk.
- A professional conduct is expected by all during the class.

### Seating

- Students should sit in the same chair for each class. This helps me to learn student's names and also allows students repeated access to files they may have saved on the classroom computer. Also, your lab work is stored on the local VM partition.
- There is no guarantee however, that student files will be preserved from one class session to the next. Students should always save important files to a flash drive at the end of class.
- Instructor reserves the right to change where a student sits for whatever reason at any time. Failure to comply will result in being expelled from the class.

### Class Cancellation Policy

- On the rare occasions when class meetings must be cancelled, students will be so informed by means of a professionally-printed, standard form which is signed by the Division Director and on which the College logo is imprinted. This form will be posted on each entry door of the scheduled classroom.
- Information about class cancellation due to the weather can be found on the MxCC homepage.

### Non-Discrimination Statement

Middlesex Community College does not discriminate on the basis of race, color, religious creed, age, sex, national origin, marital status, ancestry, present or past history of mental disorder, learning disability or physical disability, sexual orientation, gender identity and expression or genetic information in its programs and activities. In addition, the College does not discriminate in employment on the additional basis of veteran status or criminal record.

The following people have been designated to handle inquiries or complaints regarding non-discrimination policies and practices:

Primary Title IX Coordinator: Dr. Adrienne Maslin; Dean of Students/Title IX and Section 504/ADA Coordinator, [amaslin@mxcc.edu](mailto:amaslin@mxcc.edu);

Secondary Title IX Coordinator: Ms. Anastasia Pych; Human Resources Director, [apych@mxcc.edu](mailto:apych@mxcc.edu);

Secondary Title IX Coordinator: Ms. Queen Fordham, Coordinator Meriden Center Welcome Desk, [qfordham@mxcc.edu](mailto:qfordham@mxcc.edu).

### Support Services

- Tutoring and online Tutoring (eTutoring) are available through the Academic Support Center.
- Information about Tutoring can be obtained from the Director of the Academic Support Center.
- Students can access and register for eTutoring through [www.eTutoring.org](http://www.eTutoring.org). No pre-registration is required.

### Special Needs

- Please see the instructor regarding any special needs or disabilities, or contact Services for Students with Disabilities.
- Please see me before/after class or call for an appointment if you are having problems with this course! I will be happy to help you out in any way I can.

**Student Coursework - Fall 2018**Tue 6:35-8:05pm  
Wheaton Hall #305A & OnlineCRN#  
3225

28-Aug-18

Textbook	Lecture	Homework	HW Due @ 6 pm	Labs	Lab Due @ 6 pm	Attempts	Notes
Chapter 1	Tue 8/28/18	Review Questions Ch 1	Tue 9/4/18	Lab Simulation 1-1	Tue 9/4/18	2	
Chapter 2	Tue 9/4/18	Review Questions Ch 2	Tue 9/11/18	Lab Simulation 2-1	Tue 9/11/18	2	
Chapter 3	Tue 9/11/18	Review Questions Ch 3	Tue 9/18/18	Lab Simulation 3-1, 3-2	Tue 9/18/18	2	
Chapter 5	Tue 9/18/18	Review Questions Ch 5	Tue 9/25/18	Lab Simulation 5-1	Tue 9/25/18	2	
Chapter 6	Tue 9/25/18	Review Questions Ch 6	Tue 10/2/18	Lab Simulation 6-1	Tue 10/2/18	2	
Chapter 7	Tue 10/2/18	Review Questions Ch 7	Tue 10/9/18	Lab Simulation 7-1	Tue 10/9/18	2	
Chapter 8	Tue 10/9/18	Review Questions Ch 8	Tue 10/16/18	Lab Simulation 8-1	Tue 10/16/18	2	
Chapter 9	Tue 10/23/18	Review Questions Ch 9	Tue 10/30/18	Lab Simulation 9-1	Tue 10/30/18	2	
Chapter 10	Tue 10/30/18	Review Questions Ch 10	Tue 11/6/18	Lab Simulation 10-1	Tue 11/6/18	2	
Chapter 11	Tue 11/6/18	Review Questions Ch 11	Tue 11/13/18	Lab Simulation 11-1	Tue 11/13/18	2	
Chapter 12	Tue 11/13/18	Review Questions Ch 12	Tue 11/20/18	Lab Simulation 12-1, 12-2	Tue 11/20/18	2	
Chapter 13	Tue 11/20/18	Review Questions Ch 13	Tue 11/27/18	Lab Simulation 13-1, 13-2	Tue 11/27/18	2	
Chapter 14	Tue 11/27/18	Review Questions Ch 14	Tue 12/4/18	Lab Simulation 14-1, 14-2	Tue 12/4/18	2	
Chapter 15	Tue 12/4/18	Review Questions Ch 15	Tue 12/11/18	Lab Simulation 15-1	Tue 12/11/18	2	
Final	Tue 12/11/18						

  

Test	Date	Time	Material	Length		
Test 1	Tue 9/18/18	7:30 pm	Chapters 1, 2, 3	45 min	On-Site	
Test 2	Tue 10/9/18	7:30 pm	Chapters 5, 6, 7	45 min	On-Site	
Test 3	Tue 11/6/18	7:30 pm	Chapters 8, 9, 10	45 min	On-Site	
Test 4 - Final	Tue 12/11/18	6:35 pm	Chapters 11, 12, 13, 14, 15	90 min	On-Site	

**Course schedule and assignments may be subject to change.**

<b>Homework:</b>	Refers to the Review Questions at the end of each Chapter of the Textbook. This is available on MindTap via Blackboard In MindTap the Review Questions are referred to as "Unit Quiz"
<b>HW Due:</b>	Refers to the Due Date for the Homework. Due Time is at 6:00 pm After that date/time this Homework will NOT be available to work on
<b>Labs:</b>	Refers to the Lab Simulation available in MindTap via Blackboard
<b>Lab Due Date:</b>	Refers to the date this Lab must be completed. Due Time is at 6:00 pm After that date/time this Lab will NOT be available to work on
<b>Attempts</b>	Refers to how many times you can re-try this Lab, if you did not get the max points on the first try. The best score becomes your grade.
<b>Alternate Access</b>	<a href="https://login.cengage.com/cb/login.htm">https://login.cengage.com/cb/login.htm</a> to Access MindTap, if Blackboard is not available
<b>MindTap Training Video &amp; Registration</b>	<a href="https://www.cengage.com/student-training/mindtap/blackboard/ia-no">https://www.cengage.com/student-training/mindtap/blackboard/ia-no</a> Link to enter: CST 270 Fall 2018