

COMP 7327/8327 Network and Internet Security (3 cr) – Spring 2026
University of Memphis
UM Global (M50)

Instructor:

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Office Hours: TR: 12:45PM – 2:00PM or by appointment

TAs:

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Catalog Course Description: Concepts of network security; survey of security software packages; security in Java; intrusion-detection systems; current security issues on Internet and electronic commerce.

Required Textbook: Network Security Essentials: Application and Standards (6th edition) by William Stallings. Pearson, 2017

Course Policy:

Video Lectures: Video lectures will be released at noon on Mondays/Wednesdays on <https://elearn.memphis.edu>

Evaluation: The course evaluation consists of two midterm exams (100 points each), a final exam (150 points), 15 quizzes (10 points each), and a term project (250 points).

Late Submission: Late submission will be penalized 20% after the due date and are due at 11:59PM on the due date. If you have not completed your assignment by the due date, you should submit the work you have done for partial credit. No work will be accepted once the graded work has been returned or the solution has been disclosed to the class, except for unusual circumstances which the instructor feels reasonable. Note that any kind of hardware or software failure or machine unavailability in the lab does not merit an extension on the assignment.

Exams: Exams must be taken on the hour they are scheduled. In the event, if you cannot attend the class to take the exam due to some emergency or some unavoidable situation (such as serious illness, death in the family, participation in university sports, religious observations, and so on) you must notify me as soon as possible before the exam and also you must validate your absence by providing me a document (e.g., with a letter from your doctor).

Plagiarism/Cheating Policy: Plagiarism or cheating behavior in any form is unethical and detrimental to proper education and will not be tolerated. All work submitted by a student (projects, programming assignments, lab assignments, quizzes, tests, etc.) is expected to be a student's own work. The plagiarism is incurred when any part of anybody else's work is passed as your own (no proper credit is listed to the sources in your own work) so the reader is led to believe it is therefore your own effort. Students are allowed and encouraged to discuss with each other and look up resources in the literature (including the internet) on their assignments, but appropriate references must be included for the materials consulted, and appropriate citations made when the material is taken verbatim. If plagiarism or cheating occurs, the student will receive a failing grade on the assignment and (at the instructor's discretion) a failing grade in the course. The course instructor may also decide to forward the incident to the University Judicial Affairs Office for further disciplinary action. For further information on U of M code of student conduct and academic discipline procedures, please refer to: <http://www.people.memphis.edu/~jaffairs/>

Expected Performance Criteria:

Term Project	250
Quiz (15)	150
Midterm 1	100

Midterm 2	100
Final Exam	150
Total Points	750

A+: $\geq 97.5\%$, A: $\geq 92.5\%$, A-: $\geq 90\%$
 B+: $\geq 85\%$, B: $\geq 82.5\%$, B-: $\geq 80\%$
 C+: $\geq 75\%$, C: $\geq 72.5\%$, C-: $\geq 70\%$
 D+: $\geq 65\%$, D: $\geq 62.5\%$
 F: $< 62.5\%$.

Tentative Course Schedule:

DATE (BY DAY OR WEEK)	TOPIC
Week 1	Course Overview
Week 2	Chapter 1: Introduction
Week 3	Chapter 2: Symmetric Encryption and Message Confidentiality
Week 4	Chapter 3: Public-Key Cryptography and Message Authentication
Week 5	Chapter 4: Key Distribution and User Authentication
	Midterm 1
Week 6	Chapter 5: Network Access Control and Cloud Security
Week 7	Chapter 6: Transport-Level Security
Week 8	Chapter 7: Wireless Network Security
Week 9	Chapter 8: Electronic Mail Security
	Midterm 2
Week 10	Chapter 9: IP Security
Week 11	Chapter 10: Malicious Software
Week 12	Chapter 11: Intruders
Week 13	Chapter 12: Firewalls
Week 14	Term Project Presentation
	Final