ITNW 1325.218I1
Fundamentals of Network Technology
Fall 2024
Online (100%)

Instructor Information: Gidget Borne, gborne@com.edu , 409-933-8359

Student hours and location: By appointment (via Email communication)

Required Textbook:

TestOut Routing and Switching Pro
http://www.testout.com/courses/routing-and-switching-pro

ISBN: 978-1-935080-55-8

Course Description: This course offers instruction in networking technologies and their implementation. Topics include the OSI and TCP/IP reference models, network protocols, transmission media, and networking hardware and software. The student will learn to identify and use network transmission media; explain the OSI model; identify the characteristics of network topologies and protocols; identify the functions of a network operating system and distinguish between centralized, client/server, and peer-to-peer systems; and distinguish between Local Ara Networks and Wide Area Networks and Wide Area Networks and identify the components used to expand a LAN into a WAN.

Course requirements: Student will need to utilize the most currently supported version of the Microsoft Office suite to include Office 2010 or later. Student will need to have access to the Internet with a minimum bandwidth speed of 1MB/768KB (standard DSL or faster).

Determination of Course Grade/Detailed Grading Formula:

	Points
Testout Simulations	175
Testout Practice Questions	360
Discussion Topics	250
Course Evaluation	15
Final Exam	200
Total	1000

Grading Scale:

A: Final Average of 895-1000
B: Final Average of 795-894
C: Final Average of 695-794
D: Final Average of 595-694
F: Final Average of 0-594

Late Work / Make-Up Policy: Late work will be accepted. Missed exams WILL NOT (NO EXCEPTIONS).

Attendance Policy: Students are expected to attend all lectures (online or on-ground) and labs (online or on-ground). Students not able to attend a session are required to notify the instructor no later than 2 hours prior to the start of the session. Students that miss more than 35% of the total session times will be considered for student referral and possibly being dropped from the course. Students will need to log into the Brightspace system at least 1 time per week.

Communicating with your instructor: ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means.

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
Identify and use network transmission media	Critical Thinking Skills	Testout Chapters 2 Practice Questions
Explain the OSI model	Communication Skills	Testout Chapters 2 Practice Questions
Identify the characteristics of network topologies and protocols	Critical Thinking Skills	Testout Chapters 2 Practice Questions
Identify the functions of a network operating system and distinguish between centralized, client/server, and peer-to-peer systems	Critical Thinking Skills	Testout Chapters 3 and 4 Practice Questions
Distinguish between Local Area Networks (LANs) and Wide Area Networks (WANs) and identify the components used to expand a LAN into a WAN	Critical Thinking Skills	Testout Chapters 7 Practice Questions

Academic Dishonesty: Any incident of academic policy will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an

extremely serious offense and will result in a **grade of zero** on that exam and the student will be referred to the Office of Student Conduct for the appropriate discipline action.

Student Concerns: If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact the Math Department Chair, Leslie Richardson, at lrichardson@com.edu or 409-933-8244.

Course Outline:

Week	Chapter – Topic	Exam
1	Testout Chapter 1 – Introduction	
2	Testout Chapter 2 – Networking Concepts	
3	Testout Chapter 3 – Cisco Devices	
4	Testout Chapter 4 – IP Addressing	
5	Testout Chapter 5 – Switching	
6	Testout Chapter 6 – IPV4 Routing	
7	Testout Chapter 7 – IPV4 Routing Protocols	
8	Testout Chapter 8 – IPV6 Routing	Final Exam

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook https://www.com.edu/student-services/docs/Student_Handbook_2024-2025_v2.pdf. An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.**Academic Success & Support Services:** College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact:
Kimberly Lachney, Student Accessibility Services Coordinator
Phone: 409-933-8919
Email: AccessibilityServices@com.eduL
Location: COM Doyle Family Administration Building, Student Success Center

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career

by state law. The last date to withdraw from the 1st 8-week session is October 2. The last date to withdraw from the 16-week session is November15. The last date to withdraw for the 2nd 8-week session is November 26

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance,* as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

Resources to Help with Stress:
If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here https://www.com.edu/community-resource-center/. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.

Nondiscrimination Statement:
The College District prohibits discrimination, including harassment, against any individual on the basis of race, color, religion, national origin, age, veteran status, disability, sex, sexual orientation, gender (including gender identity and gender expression), or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of College District policy.