

Sul Ross State University

Spring 2020

CS 3310 Computer Communications

Instructor: Thea Glenn

Office Location: MAB 110

Office Phone: 931-237-3324

Office Hours: M&W 10:00 am-2:00 pm
T&Th 1pm-1:50 pm

TEXT #: 931-237-3324 (No text before 10am or after 10pm or on **weekends** and **holidays**)

Class: MAB 109-D

Class Time: Online

Textbook: Michael G. Solomon, David Kim, and Jeff Carrell. *Fundamentals of Communications and Networking*, 2nd ed. Burlington, MA: Jones & Bartlett, 2015

Computer Science SLOs

1. Understand modern computer systems, databases, and networking.
2. Work as a team in workgroup environments.

Learning Objectives

Students will learn the difference between the different network systems.
Students will learn network terminology pertaining to network media.
Students will learn how theoretical network and real-world networks.
Students will learn about configuration of networks.
Prerequisite: CS 1320

Classroom Conditions:

Students are not to wear cologne, perfume, and deodorant. Please be respectful of others that have asthma/allergies. Students will be requested to leave the classroom so that the lecture is not disrupted. Thank you

Attendance (in class):

Attendance Policy: Students are expected to attend every class. If class must be missed, the student is expected to get the notes from a classmate, and to check with me or on Blackboard for announcements and updated assignments.

Students are expected to arrive to class on time. If a student is perpetually late, they will be asked to not attend class unless they can arrive on time. If tardiness becomes a problem for the class as a whole, people who arrive late will not be permitted to enter the class. If this stricter policy becomes necessary, there will be an announcement made in class.

It is policy of the university to drop a student with a grade of "F" if 9 hours or more of class are missed. For this course that would be 9 or more class sessions missed. For online courses student must log into blackboard within 3 weeks or will be withdrawn from the course with the grade of an "F"

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Distance Education Statement

Students enrolled in distance education courses have equal access to the university's academic support services, such as Smarthinking, library resources, such as online databases, and instructional technology support. For more information about accessing these resources, visit the SRSU website. Students should correspond using Sul Ross email accounts and submit online assignments through Blackboard, which requires secure login information to verify students' identities and to protect students' information. ***Students need to purchase the book for this class otherwise you will fail.*** The procedures for filing a student complaint are included in the student handbook. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook. Students in web-based courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website.

Need for Assistance

Qualified students with disabilities needing academic or other accommodations to ensure full participation in the programs, services and activities at Sul Ross State University should contact the Disabilities Services Coordinator, in Counseling and Prevention Services, Ferguson Hall 112, Box C-117, Alpine, Texas 79832. Please notify me before the third day of classes.

Course Policies

Quizzes and assignments must be submitted on time. I have set up rules in BlackBoard so that assignments cannot be submitted after the due date.

Academic Dishonesty

Honesty in completing assignments is essential to the mission of the university and to the development of the personal integrity of the student. Cheating, plagiarism, or other kinds of academic dishonesty will not be tolerated and will result in appropriate sanctions that may include failing an assignment, failing the class, or being suspended or expelled. Suspected cases in this course may be reported to Student Life.

Posting of Grades

As soon as assignments, exams, and quizzes are graded, the grades will be posted in Blackboard.

Grading

Letter grades will be determined using a standard percentage point evaluation as outlined below. Please note that this is a tentative schedule and can change. Any changes that happen will be updated in Blackboard and due dates for assignments are be posted in Blackboard.

Calculating points based on the following weights Your final grade will be determined by calculating points based on the following weights:

- A 90 - 100 points
- B 80 - 89 points

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- C 70 – 79 points
- D 60 – 69 points
- F below 60 points

Grading Category	Activity Title	Grade
<i>Lesson 1: Today's Personal and Business Communication Requirements</i>		
Required Readings	▪ Chapter 1, "Today's Personal and Business Communication Requirements"	
Assignment	Unified Communications	100
<i>Lesson 2: Solving Today's Business Communication Challenges</i>		
Required Readings	▪ Chapter 2, "Solving Today's Business Communication Challenges"	
Assignment	Solving Business Enterprise Communication Challenges	100
Assignment	Working with the Government	100
<i>Lesson 3: Circuit-Switched, Packet-Switched, and IP-Based Communications</i>		
Required Readings	▪ Chapter 3, "Circuit-Switched, Packet-Switched, and IP-Based Communications"	
Assignment	Evolution of Networking Topologies	100
<i>Lesson 4: The Evolution of Ethernet</i>		
Required Readings	▪ Chapter 4, "The Evolution of Ethernet"	
Assignment	The Evolution of Ethernet/ Ethernet Network Designs	100
<i>Lesson 5: TCP/IP and Networking</i>		
Required Readings	▪ Chapter 5, "TCP/IP and Networking"	
Assignment	Transitioning from IPv4 Addressing to IPv6 Addressing	100
<i>Lesson 6: Layer 2 Networking</i>		
Required Readings	▪ Chapter 6, "Layer 2 Networking"	
Assignment	Types of Backbones & Physical Media Design	100
<i>Lesson 7: Layer 2 Networking VLANs</i>		
Required Readings	▪ Chapter 7, "Layer 2 Networking VLANs"	
Assignment	Cisco's Layer 2 Resiliency Compared to HP's IRF Layer 2 Resiliency	100
<i>Lesson 8: Layer 3 Networking</i>		

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Grading Category	Activity Title	Grade
Required Readings	▪ Chapter 8, "Layer 3 Networking"	
Assignment	Routing Protocol Resilience/ Distance-Vector Routing Protocols	100
<i>Lesson 9: Wireless LAN Standards</i>		
Required Readings	▪ Chapter 9, "Wireless LAN Standards"	
Assignment	A WLAN Solution	100
<i>Lesson 10: Voice over Internet Protocol (VoIP)</i>		
Required Readings	▪ Chapter 10, "Voice over Internet Protocol (VoIP)"	
Assignment	Advantages and Disadvantages of VoIP	100
<i>Lesson 11: Unified Communications and Session Initiation Protocol</i>		
Required Readings	▪ Chapter 11, "Unified Communications and Session Initiation Protocol"	0
Assignment	SIP-Enabled Applications/ UC Product Offerings	100
<i>Lesson 12: Fault Management and the Network Operations Center</i>		
Required Readings	▪ Chapter 12, "Fault Management and the Network Operations Center"	
Assignment	Fault Management Best Practices/ Network Operations Center	100
<i>Lesson 13: Configuration Management and Asset Control</i>		
Required Readings	▪ Chapter 13, "Configuration Management and Asset Control"	
Assignment	Business Continuity and Disaster Recovery Plans	100
<i>Lesson 14: Performance Management</i>		
Required Readings	▪ Chapter 14, "Performance Management"	
Assignment	Factors that Affect Performance	100
Assignment	Performance Measuring Tools	100
<i>Lesson 15: Security Management</i>		
Required Readings	▪ Chapter 15, "Security Management"	
Assignment	Risk Assessment and Risk Management	100
<i>Lesson 16: Course Review and Final Examination</i>		
Exam	Final Examination/Project	400