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## MISR 3360—Business Data Communications

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### Summer 2 2025 – Online Asynchronous Syllabus

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Characteristics of contemporary business data communication components their configurations and their impact on management information systems design. Topics include designing managing securing and implementing business data communication networks and their integration into management information systems. Exercises and assignments will use various data communication facilities.

**Instructor:** Nanette Scarpellini Metz  
**Office Hours:** By appointment  
**Office Location:** virtual  
**Telephone:** 805.908.2575  
**Email Address:** [Nanette.Metz@sulross.edu](mailto:Nanette.Metz@sulross.edu)  
**Class Schedule:** Online Asynchronous  
**Classroom Location:** Blackboard Ultra

**Required Texts:** **Business Data Networks and Security (12th Edition)**  
Authors: Raymond R. Panko and Julia L. Panko  
Publisher: Pearson, 2022  
ISBN-13: 978-0136681823  
ISBN-10: 0136681824

#### Official Communication:

All official communication by the University or me will be sent to your Sul Ross email account. As a result, you are required to activate your email account and check it from time to time for personal communication. I encourage you to email me if you have questions or comments, BUT PLEASE include your full name and the course for which you have questions. Even if you submit your email through the Blackboard site, I cannot tell which course you are in nor what your real name is (i.e., egar123) unless you put it in the body of your email.

#### Course Requirements and Grading

- **Quizzes (6 total):** 30%
- **Discussions/Activities (Weekly):** 30%
- **Unit Projects (2):** 20%
- **Final Project:** 20%

### Grading Scale

A = 90 - 100%

B = 80 - 89%

C = 70 - 79%

D = 60 - 69%

F = Below 60

***Note: It is my expectation that satisfactory work in this course is at the B level or above. Thus, unless you receive notification from me or your grade average reflects lower than this level (80%), you can be assured that you are doing as expected in the course.***

### The Marketable Skills for the BBA are 4:

1. Students will have the ability to apply the principles of business they learn in the BBA to the management of existing businesses or the creation of new businesses
2. Students will have the ability to use research and analysis to make informed decisions
3. Students will have the ability to write business letters, emails, resumes and reports
4. Students will have the ability to make effective oral presentations to both professional and general audiences.

### Assessments:

1. Assessment: Multiple Choice, True/False, Essay questions. Discussion Board. Written Papers.
2. Module assessments are due on the date in the syllabus course schedule. Exams are not cumulative (except to the extent that one part builds upon another). Pay attention to the exam instructions for content. Exams are time limited. You can stop and resume but the clock keeps running.
3. It is a policy for this course that after the due date there will be no make-up or reposition for the work required; this policy includes all assessments, meaning; homework, exercises, assignments, and exams. Late or partially completed work not accepted for grading purposes.

### Technology Help:

Obtain your RGC email account name and password directly from the **Central Help Desk at 1-888-837-2882**. For most technology problems, first go to the Lobo Technology Assistance Center (LTAC). The quick link to this site is available from our home page under the "My SRSU" tab. For specific help with any aspect of Blackboard, including problems with online exams, contact our Blackboard administrators in Alpine. **BLACKBOARD HELP: 432-837-6055.**

### SRSU Distance Education Statement:

Students enrolled in distance education courses have equal access to the university's academic support services, such as library resources, 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. 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. Directions for filing a student complaint are located in the student handbook

**ADA Statement:** SRSU Accessibility Services. Sul Ross State University (SRSU) is committed to equal access in compliance with the Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the student's responsibility to initiate a request each semester for each class. Students seeking accessibility/accommodations services must contact Mrs. Mary Schwartz Grisham, LPC, SRSU's Accessibility Services Director at 432-837-8203 or email [mschwartz@sulross.edu](mailto:mschwartz@sulross.edu). Our office is located on the first floor of Ferguson Hall, room 112, and our mailing address is P.O. Box C122, Sul Ross State University, Alpine. Texas, 79832.

**Counseling:** Sul Ross has partnered with TimelyCare where all SR students will have access to nine free counseling sessions. You can learn more about this 24/7/365 support by visiting [Timelycare/SRSU](https://www.timelycare.com/sulross). The SR Counseling and Accessibility Services office will continue to offer in-person counseling in Ferguson Hall room 112 (Alpine campus), and telehealth Zoom sessions for remote students and RGC students.

**Libraries:** The Bryan Wildenthal Memorial Library in Alpine offers FREE resources and services to the entire SRSU community. Access and borrow books, articles, and more by visiting the library's website, [library.sulross.edu/](https://library.sulross.edu/). Off-campus access requires logging in with your LoboID and password. Librarians are a tremendous resource for your coursework and can be reached in person, by email ([srsulibrary@sulross.edu](mailto:srsulibrary@sulross.edu)), or by phone (432-837-8123).

No matter where you are based, public libraries and many academic and special libraries welcome the general public into their spaces for study. SRSU TexShare Cardholders can access additional services and resources at various libraries across Texas. Learn more about the TexShare program by visiting [library.sulross.edu/find-and-borrow/texshare/](https://library.sulross.edu/find-and-borrow/texshare/) or ask a librarian by emailing [srsulibrary@sulross.edu](mailto:srsulibrary@sulross.edu).

Mike Fernandez, SRSU Librarian, is based in Eagle Pass (Building D-129) to offer specialized library services to students, faculty, and staff. Utilize free services such as InterLibrary Loan (ILL) and ScanIt to get materials delivered to you at home or via email.

**Academic Integrity:** Students in this class are expected to demonstrate scholarly behavior and academic honesty in the use of intellectual property. A scholar is expected to be punctual, prepared, and focused; meaningful and pertinent participation is appreciated. Examples of academic dishonesty include but are not limited to: Turning in work as original that was used in whole or part for another course and/or professor; turning in another person's work as one's

own; copying from professional works or internet sites without citation; collaborating on a course assignment, examination, or quiz when collaboration is forbidden.

**Classroom Climate of Respect:** Importantly, this class will foster free expression, critical investigation, and the open discussion of ideas. This means that all of us must help create and sustain an atmosphere of tolerance, civility, and respect for the viewpoints of others. Similarly, we must all learn how to probe, oppose and disagree without resorting to tactics of intimidation, harassment, or personal attack. No one is entitled to harass, belittle, or discriminate against another on the basis of race, religion, ethnicity, age, gender, national origin, or sexual preference. Still, we will not be silenced by the difficulty of fruitfully discussing politically sensitive issues.

## Schedule for MISR 3360 – Summer 2 2025

Week	Topic	Readings
July 7	<ul style="list-style-type: none"> <li>History and components of data communications</li> <li>Network layers and standards</li> <li>Application layer protocols (HTTP, Email, FTP)</li> </ul> <ol style="list-style-type: none"> <li>Discussion Forum: “Impact of Data Communications in Business”</li> <li>Quiz: Fundamentals &amp; Application Layer</li> </ol>	Textbook Chapters 1 and 2 Video Lectures: “Evolution of Communications” + “Client-Server Interactions”
July 14	<ul style="list-style-type: none"> <li>Network circuits, digital/analog transmission</li> <li>Modems, multiplexing</li> <li>Data link layer, error detection/correction</li> </ul> <ol style="list-style-type: none"> <li>Discussion Forum: Data Transmission &amp; the Physical Layer</li> <li>Problem Set: Error Detection</li> <li>Quiz: Physical + Data Link Layers</li> </ol>	Textbook Chapters 3 and 4 Video: "Error Detection in Action"
July 21	<ul style="list-style-type: none"> <li>Network &amp; Transport Layers + Network Design</li> <li>TCP/IP, packetization, addressing, routing</li> <li>Logical vs. physical design, topologies, design tools</li> </ul> <ol style="list-style-type: none"> <li>Discussion Forum: nIPv4 vs. IPv6</li> <li>Mini-Project: Network Design Proposal</li> <li>Quiz</li> </ol>	Textbook Chapters 5, 6 and 7
July 28	<ul style="list-style-type: none"> <li>LAN components, Ethernet, WLAN security</li> </ul>	Textbook Chapters 8 and 9 Virtual Lab: Configure a LAN

	<ul style="list-style-type: none"> <li>○ Backbone architecture, internetworking devices</li> </ul> <ol style="list-style-type: none"> <li>1. Discussion Forum: Backbone Evolution</li> <li>2. Quiz: LAN/Backbone Technologies</li> </ol>	
August 4	<ul style="list-style-type: none"> <li>○ Circuit vs. packet switching, dedicated services</li> <li>○ VPNs, broadband, mobile internet</li> </ul> <ol style="list-style-type: none"> <li>1. Discussion Forum: WAN Options</li> <li>2. Technical Brief: Internet Access Technologies</li> <li>3. Quiz: WANs &amp; Internet</li> </ol>	Textbook Chapters 10 and 11 Research Activity: Emerging Internet Tech
August 11	<ul style="list-style-type: none"> <li>○ Security threats, risk assessment</li> <li>○ Management tools, performance, troubleshooting</li> </ul> <ol style="list-style-type: none"> <li>1. Discussion Forum: Emerging Security Threats</li> <li>2. Final Project: Network Design &amp; Management Plan</li> <li>3. Final Reflection</li> </ol>	Textbook Chapters 12 and 13 Simulation: Security Vulnerability Assessment