

**CSIS 202  
Networks and Data Communications  
Mt San Jacinto College**

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**Course Website:** <https://my.msjc.edu>

**Meeting Information**

Fully Online at <https://my.msjc.edu>

**Office Hours**

Please arrange a meeting in advance. Call me at (951) 639-5449 or email me at [morloff@msjc.edu](mailto:morloff@msjc.edu)

**Communicating via Email**

MSJC is now providing email addresses to the students. **I strongly recommend that you become familiar with these services as all email communications that are initiated by the instructor will be sent to the your MSJC provided email address.**

***Email Subject Naming Convention***

With SPAM infiltrating our email accounts, I do not open emails that I do not recognize. Therefore, to ensure successful delivery of email communications sent to the instructor, please place the following in the subject field of your email message:

**Subject: CSIS 202, <last name>, <subject of message>**

So if John Doe were to send an email to me about Weekly Review Assignment 1, the subject would be the following:

**Subject: CSIS 202, Doe, Question about WR-1**

If your email requires a response, I will respond to your message within 72 hours of the posting. On average, my response time to your inquiries is much shorter than 72 hours, but this defines the 'upper limit' and you can plan accordingly.

## **Course Description**

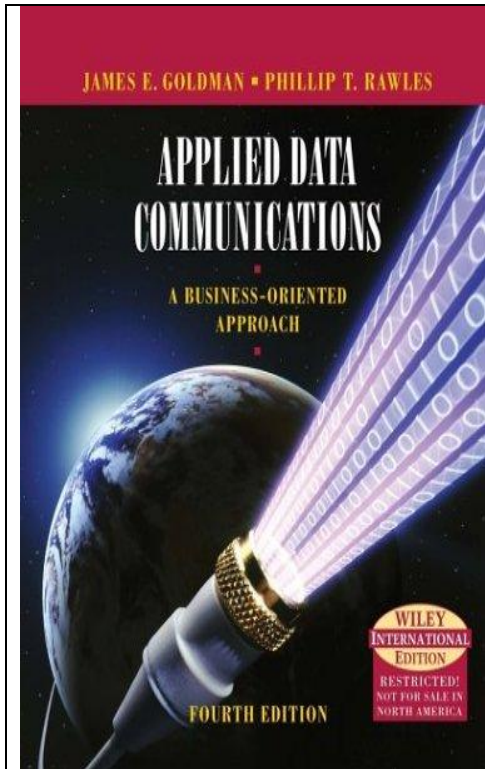
This course introduces students to fundamental data communication concepts including voice and data communications, networking hardware, the OSI model, and network design. Network management and security issues are also covered. This course is designed for the student who is interested in learning about data communications and networking as well as the career options that are available in this field.

## **Course Objectives**

Upon completion of the course, the student will be able to do the following:

- Define computer networking, and discuss the advantages of using a network.
- Categorize the primary types of network cabling, differentiate between baseband and broadband transmissions, and identify appropriate uses for each.
- Define the term *packet*, and describe the contents and functions of each packet component: header, data, and trailer.
- Describe the primary function of each layer of the OSI reference model, identify the OSI layer at which a particular network activity takes place, and identify the OSI layer at which a particular network component functions.
- Design a successful network.
- Evaluate and select the appropriate media and hardware with which to construct a successful network.
- Assess a given network design for security considerations.

## **Textbook & Required Materials**



Applied Data Communications: A Business-Oriented Approach, Fourth Edition

(James E. Goldman and Phillip Rawles)

ISBN: 0-471-34640-3

Internet Access

### **Prerequisites**

None

### **Attendance Policy**

Being that this is an online class, there will be no designated time of attendance. It is the student's responsibility to participate in the online activities, meet deadlines, etc. If the student finds it necessary to drop the course, it is his/her

responsibility to initiate the drop process (visit the student tools tab at my.msjc.edu). Should a student not access the course for **14 consecutive days** (available to instructor through access statistics), the student may be removed from the course.

### **Academic Honesty Policy**

Please refer to the MSJC [Student Code of Conduct](#) located in the College Catalog.

### **Computer-Use Policy**

Any student or user who wishes to use the computer facilities, including (but not limited to) Internet software or any Internet related services must read and agree to the MSJC [Acceptable Use Policy](#) and Computer Facility Rules.

### **Disabilities Policy**

In compliance with the Americans with Disabilities Act (ADA), all qualified students enrolled in this course are entitled to reasonable accommodations. Please notify the instructor during the first week of class of any accommodations needed for the course.

### **Assignments**

The following is a brief description of the course assignments that satisfy the course objectives:

**CI Check In** - The Check In assignment assesses technical competencies such as posting asynchronous discussion board threads and taking online tests. **The Check In Assignment must be completed by the end of the second day of class or you will be dropped from the course.** The CI is worth 15 points.

**WR Weekly Review** - Weekly Review questions are directly related to concepts covered in both the assigned e-lecture(s) and reading(s). Each WR is worth 15 points.

**AA Application Activity** - Application Activities allow students to apply concepts reviewed in units through an activity that typically simulates real-world scenarios. Each AA is worth 30 Points.

**DB Discussion Board** - Each and every one of us provides a valued and unique perspective to the course. Each of us will have different experiences and, yet, still share common ones. Posting our thoughts, opinions and experiences on the Discussion Boards offer an additional view to consider and enhance the learning process. Each DB assignment will require the following:

- One (1) original thread (300-400 words) to an instructor provided prompt (10 points)
- Reply (100-200 words) to two (2) fellow classmate threads. (2 replies at 5 points each = 10 points)

Each original thread is worth 10 points. Each reply is worth 5 points. Therefore, each DB is worth a total of 20 points. 5 DBs will be assigned during the course totaling 120 points. The above are the minimum requirement to receive full credit. If you wish to post more, please do so. While you will not receive any extra credit for posting additional messages, you may learn more. **REMEMBER, YOU WILL GET AS MUCH OUT OF THIS COURSE AS YOU PUT IN!**

**Unit Exam (UE)** - An examination of student progress will be conducted at the conclusion of each unit. Unit Exams consist of multiple choice, true/false, matching and essay questions. Each UE is worth 100 points. 4 UEs will be assigned during the course for a total of 400 points.

**Final Project (FP)** - The final project will assess a student's ability to apply course concepts to real world scenarios. Given a scenario, individuals (or groups) will analyze and design a network including layout, hardware/software selection and function. The FP will be worth a total of 200 points. More information on the FP will be provided later in the course. **NOTE: Regardless of your standing in the class, you must submit a final project to successfully pass the course.**

### ***Assignment Submission Policy***

Assignments are due weekly on Wednesdays at 12:00 pm (noon). View the Course Calendar for details.

Assignments are to be submitted through the channels provided. **DO NOT SEND YOUR ASSIGNMENTS VIA EMAIL!!** See the Assignments link in the course website for details.

### **Grading Policy (subject to change):**

Each activity/assignment is assigned a point value. Each submission will be graded and awarded points commiserate with the effort demonstrated. Locate your cumulative awarded points on the following grade scale to identify your final grade. Progress reports will be posted weekly. **If you identify any discrepancies in your grade report, it is your responsibility to report them to the instructor via email within one week of grade posting. Any discrepancies found past this fair deadline will not be addressed.**

<u>Activity/Assignment</u>	<u>Total Points</u>
CI Check In	15
WR Weekly Review	165
AA Application Activity	120
DB Discussion Boards	100
UE Unit Exams	400
FP Final Project	<u>200</u>
<b>Total</b>	<b>1000</b>

### Scale

900 - 1000	<b>A</b>
800 - 899	<b>B</b>
700 - 799	<b>C</b>
600 - 699	<b>D</b>

### Make-Up Policy

Assignments/activities are due as specified in the class calendar (see below). A late submission ? regardless of reason - is unsatisfactory in business and, therefore is unsatisfactory in this course. **However, while I discourage turning in any assignments past its deadline, I do understand that issues emerge. Therefore I am willing to accept late submissions (1 week maximum) of the following assignment types:**

- **WR Weekly Review**
- **AA Application Activity**

Still, a late submission is unsatisfactory. **This means that a late submission will be penalized 35% prior to being graded.** For example, if you turn in a late 10 point assignment that demonstrates excellent work (10 out of 10 points) it will be receive 6 out of 10 points. You have one week to turn in a late submission for credit. After the one week window expires, so does your opportunity to receive credit for a given assignment.

**NOTE:** Being an online class, I understand that technology may not always work seamlessly. However, the student is responsible to ensure timely submission with strong consideration for potential completion issues (e.g., technical, situational, personal, etc.). What does this mean? I suggest you do not wait until the last minute to complete an assignment as you may encounter technical

difficulties. If the difficulties are a direct result of the MSJC systems, the burden of proof lies with the student. So, if you think you may encounter technical difficulties, be sure to print out submission receipts for justifying your case.

### Class Calendar (Tentative)

Date	e-Lectures and Readings	Assignments/ Activities DUE Wednesdays 12 PM
Week 1	<b>Begin Unit 1: Data Communication Fundamentals</b>  Read Chapter 1 in Text  e-Lectures:  -The Data Communications Industry -Data Communications Analysis: Challenges/Solutions -The Data Communications Profession	<b>Check In (Due by Second Day of Class)</b>  DUE by Start of Next week at 12pm:  WR-1 AA-1
Week 2	Read Chapter 2 in Text  e-Lectures:  -Data Digitization -Data Transmission Techniques -Data Communication Techniques -Error Control Techniques	DUE by 2/6 12pm:  WR-2 DB-1 (1 original thread)
Week 3	Read Chapter 3 in Text  e-Lectures:  -Communications Media -P2P Data Transmission Technologies -Internet Access Technologies	DUE by Start of Next week at 12pm:  WR-3 DB-1 (2 replies)  AA-2
Week 4	<b>Study for Unit Exam 1: Data Communication Fundamentals</b>	DUE by Start of Next week at 12pm:

		UE-1
<b>Week 5</b>	<b>Begin Unit 2: Network Transmission Technologies</b>  Read Chapter 4 in Text  e-Lectures:  -Local Area Networks	DUE by Start of Next week at 12pm:  WR-4 DB-2 (1 original thread)
<b>Week 6</b>	TBA	DUE by Start of Next week at 12pm:  DB-2 (2 replies)
<b>Week 7</b>	Read Chapter 6 in Text  e-Lectures:  -Wide Area Networks	DUE by Start of Next week at 12pm:  WR-6 DB-3 (1 original thread)
<b>Week 8</b>	<b>Study for Unit Exam 2: Network Transmission Technologies</b>	DUE by Start of Next week at 12pm:  UE-2 DB-3 (2 replies)
<b>Week 9</b>	<b>Begin Unit 3: Network Protocols and Administration</b>  Read Chapter 7 in Text  e-Lectures:  -Layer 3: The Network Layer -LAN Protocols	DUE by Start of Next week at 12pm:  WR-7  AA-3
<b>Week 10</b>	Read Chapter 8 in Text  e-Lectures:  -TCP/IP Network Design	DUE by Start of Next week at 12pm:  WR-8

		AA-4
Week 11	<p>Read Chapter 9 in Text</p> <p>e-Lectures:</p> <p>-Network Operating Systems</p>	<p>DUE by Start of Next week at 12pm:</p> <p>WR-9 DB-4 (1 original thread)</p>
Week 12	<p>Study for Unit Exam 3: Network Protocols and Administration</p>	<p>DUE by Start of Next week at 12pm:</p> <p>UE-3 DB-4 (2 replies)</p>
Week 13	<p>Begin Unit 4: Network Development and Management</p> <p>Read Chapter 10 in Text</p> <p>e-Lectures:</p> <p>-Network Development Life Cycle</p>	<p>DUE by Start of Next week at 12pm:</p> <p>WR-10 DB-5 (1 original thread)</p>
Week 14	<p>Read Chapter 11 in Text</p> <p>e-Lectures:</p> <p>-Network Management -Enterprise Network Management</p>	<p>DUE by Start of Next week at 12pm:</p> <p>WR-11 DB-5 (2 replies)</p>
Week 15	<p>Read Chapter 12 in Text</p> <p>e-Lectures:</p> <p>-Network Security Concepts</p>	<p>DUE by Start of Next week at 12pm:</p> <p>WR-12</p>
Week 16	<p>Study for Unit Exam 4: Network</p>	<p>DUE by Start of Next</p>

	<b>Development and Management</b>	<b>week at 12pm:</b> <b>UE-4</b>
<b>Week 17- Finals Week</b>	<b>Work on Final Project</b>	<b>DUE by Start of Next week at 12pm:</b> <b>FP</b>