COURSE DATES, MODALITY, AND LOCATION
This is a 100% online course, and uses the A&M-Central Texas Canvas Learning Management System [https://tamuct.instructure.com/]. All announcement regarding homework assignments, class tests, exams will be posted in Canvas. Students are required to access Canvas course page at least once a week to get any update regarding this course. Online learning requires all the enrolled students to self-paced and prepare themselves to comply with assigned class assignments and exams.

INSTRUCTOR AND CONTACT INFORMATION
Instructor: Abhijit K Nag, Ph.D.
Office: FH 323
Phone: (254)501-5933 (COBA office)
Email: Canvas Inbox (preferred). If the canvas is unavailable, email me: aknag@tamuct.edu.

Office Hours
Monday/Wednesday 4:45 pm –5:40 pm (virtually via course chat option or WebEx/Teams meeting). I will also be available for students on an appointment basis. Send me an email (aknag@tamuct.edu) to schedule an appointment to meet.

Student-instructor interaction
Students are encouraged to send all course-related correspondence to Canvas email message. Students will use TAMUCT email only when Canvas is not available. Students should use their university email address to send the email to the course instructor.

WARRIOR SHIELD
Emergency Warning System for Texas A&M University-Central Texas
Warrior Shield is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in Warrior Shield through their myCT email account.

Connect to Warrior Shield by 911Cellular [https://portal.publicsafetycloud.net/Account/Login] to change where you receive your alerts or to opt out. By staying enrolled in Warrior Shield,
university officials can quickly pass on safety-related information, regardless of your location.

COVID-19 SAFETY MEASURES

To promote public safety and protect students, faculty, and staff during the coronavirus pandemic, Texas A&M University-Central Texas has adopted policies and practices to minimize virus transmission. All members of the university community are expected to adhere to these measures to ensure their own safety and the safety of others. Students must observe the following practices while participating in face-to-face courses, course-related activities (office hours, help sessions, transitioning to and between classes, study spaces, academic services, etc.) and co-curricular programs:

- **Self-monitoring**—Students should follow CDC recommendations for self-monitoring. Students who have a fever or exhibit symptoms of COVID-19 should participate in class remotely and should not participate in face-to-face instruction. Students required to quarantine must participate in courses and course-related activities remotely and must not attend face-to-face course activities. Students should notify their instructors of the quarantine requirement. Students under quarantine are expected to participate in courses and complete graded work unless they have symptoms that are too severe to participate in course activities.

- **Face Coverings**—Face coverings must be worn inside of buildings and within 50 feet of building entrances on the A&M-Central Texas Campus. This includes lobbies, restrooms, hallways, elevators, classrooms, laboratories, conference rooms, break rooms, non-private office spaces, and other shared spaces. Face coverings are also required in outdoor spaces where physical distancing is not maintained. The university will evaluate exceptions to this requirement on a case by case basis. Students can request an exception through the Office of Access and Inclusion in Student Affairs.
  - If a student refuses to wear a face covering, the instructor should ask the student to leave and join the class remotely. If the student does not leave the class, the faculty member should report that student to the Office of Student Conduct. Additionally, the faculty member may choose to teach that day’s class remotely for all students.

- **Physical Distancing**—Physical distancing must be maintained between students, instructors, and others in the course and course-related activities.

- **Classroom Ingress/Egress**—Students must follow marked pathways for entering and exiting classrooms and other teaching spaces. Leave classrooms promptly after course activities have concluded. Do not congregate in hallways and maintain 6-foot physical distancing when waiting to enter classrooms and other instructional spaces.

- The university will notify students in the event that the COVID-19 situation necessitates changes to the course schedule or modality.
COURSE INFORMATION

Course Overview and description
A study of voice and data communications technologies, concepts, and applications, including communications terminology, hardware, software, protocols, and managerial issues in data and voice communications. Topics include alternatives available in hardware, software, and transmission facilities; design integration; and selection and implementation of communications solutions. In addition, students explore the current and future impact and directions of these technologies.

Course Objective or Goal

Student Learning Outcomes
1. Illustrate network behavior and principles employed in an organization and the underlying operation of the communication networks.
2. Demonstrate the details of data and signals in Computer Networking and analyze the correct operation of various protocols.
3. Understand the basic principles of Internet protocols and various internet services.

Competency Goals Statements (certification or standards)
None

Required Reading and Textbook(s)

Business Data Communications and Networking

Author: Jerry FitzGerald, Alan Dennis, Alexandra Durcikova.


Textbook companion website: https://www.wileystudentchoice.com/

Note: An electronic version of the book may be available. A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Supplemental Material: The course textbook will be supplemented with other materials including handouts, oral presentations, software demonstration, PowerPoint presentations, etc.

COURSE REQUIREMENTS

Reading Assignments:
All assigned chapters will be used as a basis for canvas discussions. Students are expected to study the required chapter before each class session.

Students are required to complete one midterm exam, one final exam, five class tests, four homework assignments, one course presentation (Video narration and a PowerPoint slide) and four discussion questions. The topic of all exams will be declared in the canvas portal. Canvas discussions are counted towards class participation points for this course.

Class Tests
There will be five class tests for this online course. The class tests will be conducted online through Canvas course website. Each class test will be worth 48 points.
Exams
There will be one midterm and one final exam. The midterm exam will contain 200 points, and the final exam will contain 200 points. The final exam will NOT be comprehensive for this course.

Assignments
Four assignments (homework assignments) will be given to the students. The due dates of these assignments will be posted in canvas course portal. Each assignment will be worth 60 points.

Course Discussions
Following the course chapter presentations in every week is mandatory for this course. Canvas discussions will be counted toward class participation marks. Canvas discussions will be posted on Discussions tab in Canvas portal. Total discussion questions are worth 40 points.

Course Presentation
This course will require students to present a topic related to Data Communication. Students will prepare a video presentation of their PowerPoint slide and upload it to the Canvas portal. Details regarding this presentation will be announced in Canvas after the midterm. This presentation is worth 80 points.

Grading Criteria Rubric and Conversion
The distribution of points in different activities and the grading scheme are mentioned below:

<table>
<thead>
<tr>
<th>Student Activity</th>
<th>Quantity</th>
<th>Points</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Tests</td>
<td>5</td>
<td>48</td>
<td>240</td>
</tr>
<tr>
<td>Assignments</td>
<td>4</td>
<td>60</td>
<td>240</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>1</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Final Exam</td>
<td>1</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Course Presentation</td>
<td>1</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Canvas Discussions</td>
<td>4</td>
<td>10</td>
<td>40</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>1000</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Point Range</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000-900</td>
<td>A</td>
</tr>
<tr>
<td>899-800</td>
<td>B</td>
</tr>
<tr>
<td>799-700</td>
<td>C</td>
</tr>
<tr>
<td>699-600</td>
<td>D</td>
</tr>
<tr>
<td>599-0</td>
<td>F</td>
</tr>
</tbody>
</table>
Posting of Grades
All students’ grade will be posted on the Canvas Grade book, and students can monitor their progress in this course using Canvas Portal. Students can expect to see their grades within two weeks of the closing of class tests, exams, and assignments. Students are expected to visit Canvas course webpage every week multiple times to get any update regarding this course. All updates regarding homework and tests will be posted in “Announcement” tab in Canvas course portal.

Grading Policies
Policies related to grading
- All the assignments must be submitted before the posted deadline in Canvas Course Website unless arrangements are made beforehand.
- Assignments and class tests posted before midterm exam cannot be completed/submitted after the midterm exam.
- Assignments more than 48 hours late are subject to 20% late penalty.
- Requests for Incomplete grades:
  - Incompletes will only be given in emergency or other extreme circumstances. Any request for an incomplete grade in this course must be approved by the course professor prior to April 09, 2021. Where possible, requests should be submitted in written form with reasons and must include an address and/or telephone number where you may be contacted throughout the following semester.
  - For a request of an incomplete grade to be considered, at least 70% of the total course work (700 points) must be completed.
  - Finally, approval of an incomplete grade (I) is up to the department chair and college Dean.

Instructor’s Personal Statement
- The instructor reserves the right to modify the course syllabus during the semester for the benefit of the students.
- The instructor reserves the right to supplement materials presented in the text with additional course material that may help the students to understand the topic better.
- The instructor reserves the right to modify grading policy rubrics. Any Change to grading rubrics will be applied to current and possible future assignments.
- The instructor will not accept any course assignment after May 07, 2021 in spring 2021 semester.

COURSE OUTLINE AND CALENDAR
Complete Course Calendar
The tentative course outline is mentioned below.

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topic</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 19 – Jan 24</td>
<td>Chapter 01; Read the chapter and assigned readings</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Jan 25- Jan 31</td>
<td>Chapter 02; Read the chapter and assigned readings</td>
<td>Assignment 1</td>
</tr>
<tr>
<td>3</td>
<td>Feb 01 – Feb 07</td>
<td>Chapter 03; Read the chapter and assigned readings</td>
<td>Class Test 1</td>
</tr>
<tr>
<td>Week</td>
<td>Dates</td>
<td>Topic</td>
<td>Due</td>
</tr>
<tr>
<td>------</td>
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<tr>
<td>4</td>
<td>Feb 8- Feb 14</td>
<td>Chapter 04; Read the chapter and assigned readings</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Feb 15- Feb 21</td>
<td>Chapter 05; Read the chapter and assigned readings</td>
<td>Assignment 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Class Test 2</td>
</tr>
<tr>
<td>6</td>
<td>Feb 22-Feb 28</td>
<td>Chapter 06; Read the chapter and assigned readings</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Mar 01-Mar 07</td>
<td>Chapter 07; Read the chapter and assigned readings</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Midterm Exam</strong></td>
<td>Midterm Exam</td>
</tr>
<tr>
<td>9</td>
<td>Mar 15 – Mar 21</td>
<td>Spring Break</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Mar 22- Mar 28</td>
<td>Chapter 07; Read the chapter and assigned readings</td>
<td>Class Test 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Assignment 3</td>
</tr>
<tr>
<td>11</td>
<td>Mar 29- Apr 04</td>
<td>Chapter 08; Read the chapter and assigned readings</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Apr 05 – Apr 11</td>
<td>Chapter 10; Read the chapter and assigned readings</td>
<td>Class Test 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Assignment 4</td>
</tr>
<tr>
<td>13</td>
<td>Apr 12 – Apr 18</td>
<td>Chapter 11; Read the chapter and assigned readings</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Apr 19 – Apr 25</td>
<td>Chapter 12; Read the chapter and assigned readings</td>
<td>Class Test 5</td>
</tr>
<tr>
<td>15</td>
<td>Apr 26- May 02</td>
<td>Chapter 13; Read the chapter and assigned readings</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>May 3 –May 9</td>
<td>Course Review and <strong>Final Exam</strong></td>
<td><strong>Final Exam</strong></td>
</tr>
<tr>
<td>17</td>
<td>May 10- May 13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Important University Dates**
Please visit [https://www.tamuct.edu/registrar/academic-calendar.html](https://www.tamuct.edu/registrar/academic-calendar.html) for important University dates.

**TECHNOLOGY REQUIREMENTS AND SUPPORT**

**Technology Requirements**
This course will use the A&M-Central Texas Instructure Canvas learning management system. **We strongly recommend the latest versions of Chrome or Firefox browsers. Canvas no longer supports any version of Internet Explorer.**

Logon to A&M-Central Texas Canvas [https://tamuct.instructure.com/](https://tamuct.instructure.com/) or access Canvas
through the TAMUCT Online link in myCT [https://tamuct.onecampus.com/]. You will log in through our Microsoft portal.

Username: Your MyCT email address. Password: Your MyCT password

Canvas Support
Use the Canvas Help link, located at the bottom of the left-hand menu, for issues with Canvas. You can select “Chat with Canvas Support,” submit a support request through “Report a Problem,” or call the Canvas support line: 1-844-757-0953.
For issues related to course content and requirements, contact your instructor.

Online Proctored Testing
A&M-Central Texas uses Proctorio for online identity verification and proctored testing. This service is provided at no direct cost to students. If the course requires identity verification or proctored testing, the technology requirements are: Any computer meeting the minimum computing requirements, plus web camera, speaker, and microphone (or headset). Proctorio also requires the Chrome web browser with their custom plug in.

Other Technology Support
For log-in problems, students should contact Help Desk Central
24 hours a day, 7 days a week
Email: helpdesk@tamu.edu
Phone: (254) 519-5466
Web Chat: [http://hdc.tamu.edu]
Please let the support technician know you are an A&M-Central Texas student.

UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

Drop Policy
If you discover that you need to drop this class, you must complete the Drop Request Dynamic Form through Warrior Web.
Faculty cannot drop students; this is always the responsibility of the student. The Registrar’s Office will provide a deadline on the Academic Calendar for which the form must be completed. Once you submit the completed form to the Registrar’s Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar’s Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.
**Academic Integrity**

Texas A&M University -Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student’s academic performance and includes, but is not limited to, working with others in an unauthorized manner, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student’s work, collusion, and the abuse of resource materials. All academic misconduct concerns will be referred to the university’s Office of Student Conduct. Ignorance of the university’s standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

For more information regarding the Student Conduct process, [https://www.tamuct.edu/student-affairs/student-conduct.html]. If you know of potential honor violations by other students, you may submit a report, [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0].

**Academic Accommodations**

At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier-free education. The Office of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the university’s programs, services and activities. If you believe you have a disability requiring reasonable accommodations please contact the Office of Access and Inclusion, WH-212; or call (254) 501-5836. Any information you provide is private and confidential and will be treated as such.

For more information please visit our Access & Inclusion Canvas page (log-in required) [https://tamuct.instructure.com/courses/717]

**Important information for Pregnant and/or Parenting Students**

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related guidance from US Department of Education’s Office of Civil Rights, the Dean of Student Affairs’ Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. Students should seek out assistance as early in the pregnancy as possible. For more information, please visit Student Affairs [https://www.tamuct.edu/student-affairs/index.html]. Students may also contact the institution’s Title IX Coordinator. If you would like to read more about these requirements and guidelines online, please visit the website [http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf].
Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender—including pregnancy, parenting, and all related conditions. A&M-Central Texas is able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Associate Dean in the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also contact the University’s Title IX Coordinator.

**Tutoring**

Tutoring is available to all A&M-Central Texas students, on a remote online basis. Visit the Academic Support Community in Canvas to view schedules and contact information. Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Student success coaching is available online upon request.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or have any other question, contact Academic Support Programs at (254) 501-5836, visit the Office of Student Success at 212F Warrior Hall, or by emailing studentsuccess@tamuct.edu.

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log in and receive online tutoring support at no additional cost. This tool provides tutoring in over 40 subject areas. Access Tutor.com through Canvas.

**University Writing Center**

Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University–Central Texas (TAMUCT) is a free workspace open to all TAMUCT students from 10:00 a.m.-5:00 p.m. Monday thru Thursday with satellite hours in the University Library Monday thru Thursday from 6:00-9:00 p.m. This semester, the UWC is also offering online only hours from 12:00-3:00 p.m. on Saturdays.

Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students’ ideas and writing, our tutors highlight the ways in which they read and interpret students’ texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the UWC is here to help!
Students may arrange a one-to-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via WConline [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu if you have any questions about the UWC and/or need any assistance with scheduling.

University Library
The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 85,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available 24 hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our Library website [http://tamuct.libguides.com/index].

For Spring 2021, all reference service will be conducted virtually. Please go to our Library website [http://tamuct.libguides.com/index] to access our virtual reference help and our current hours.

OPTIONAL POLICY STATEMENTS

A Note about Sexual Violence at A&M-Central Texas
Sexual violence is a serious safety, social justice, and public health issue. The university offers support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and
victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively create environments that tell predators we don’t agree with their behaviors and tell survivors we will support them. Your actions matter. Don’t be a bystander; be an agent of change. For additional information on campus policy and resources visit the Title IX webpage [https://www.tamuct.edu/departments/compliance/titleix.php].

**Behavioral Intervention**
Texas A&M University-Central Texas cares about the safety, health, and well-being of its students, faculty, staff, and community. If you are aware of individuals for whom you have a concern, who are exhibiting concerning behaviors, or individuals causing a significant disruption to our community, please make a referral to the Behavioral Intervention Team. Referring your concern shows you care. You can complete the referral online [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=2].

Anonymous referrals are accepted. Please see the Behavioral Intervention Team website for more information [https://www.tamuct.edu/student-affairs/bat.html]. If a person’s behavior poses an imminent threat to you or another, contact 911 or A&M-Central Texas University Police at 254-501-5800.