



CIS 5304-110, CRN 10415, Telecommunications for Managers

Spring 2018 rev. 1.09.2018

Texas A&M University-Central Texas

INSTRUCTOR AND CONTACT INFORMATION

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Office Hours:

Location	Mon	Tues	Wed	Thurs	Fri
FH 323J	By Appointment	1:00 - 2:30 pm, & by appointment	By Appointment	1:00 - 2:30 pm, 5:00 - 6:00 pm, & by appointment	By Appointment
Virtual	By Appointment	By Appointment	By Appointment	By Appointment	By Appointment

▪ **Mode of instruction and course access:**

This course is a Face-to-Face course; however, the A&M-Central Texas Canvas Learning Management System (Canvas) [\[https://tamuct.instructure.com\]](https://tamuct.instructure.com) extensively – pretty much for all but the lectures. You will use the Canvas username and password communicated to you separately to logon to this system. The course syllabus, schedule, supplemental readings, class announcements, power point slides, learning modules, homework assignments, exams and other course related documents will be posted on Canvas. Each student is responsible for the posted material, and should check the Canvas at least weekly for updates. The course outline in this syllabus shows the basic schedule for the semester..

▪ **Student-instructor interaction:**

Please send all course related correspondence through Canvas “Inbox”. Please use TAMUCT email only when Canvas is not available (or for non-course related correspondence). I check email several times a day during the week and at least once during the weekends. I will attempt to respond within 24 hours Mon-Thurs and within 48 hours on Fri through Sun. Please do not hesitate to stop by my office during the scheduled office hours or contact me via phone, Canvas Inbox, or TAMUCT email, if there are any personal problems or challenges that are hindering your regular progress in

the course.

911 Cellular:

Emergency Warning System for Texas A&M University – Central Texas

911Cellular 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 911 Cellular through their myCT email account.

Connect at [911Cellular](https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management) [https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management] to change where you receive your alerts or to opt out. By staying enrolled in 911Cellular, university officials can quickly pass on safety-related information, regardless of your location.

COURSE INFORMATION

Course Overview and description

This course examines the management and utilization of data communication technologies including technical components, configurations, applications, protocols, legal issues, software and management issues, Local Area Network (LAN) technologies, and security issues.

Prerequisite: CIS 5301 or approval of department head.

Student Learning Outcomes:

1. Student Learning Outcomes

A student successfully completing this course should demonstrate a firm understanding of the basics of Telecommunications:

- 1.1. Demonstrate knowledge about a wide range of telecommunication technology and management
- 1.2. Evaluate work conditions and employment responsibilities in telecommunications.
- 1.3. Create material to demonstrate knowledge of telecommunications analysis tools
- 1.4. Develop an in depth detailed knowledge of the topic
- 1.5. Assess security trends and threats to telecommunications

Required Reading and Textbook(s):

Required Text: *Data Communications & Computer Networks, Curt M. White, 8th Ed, Cengage*
ISBN: 978-1-305-11663-3

Note: 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.

COURSE REQUIREMENTS

- 1. Reading Assignments:** All assigned chapters will be used as basis for class and/or blackboard discussions. Study the assigned readings before each class.
- 2. Attendance/Participation Policy:** Class attendance is required. The policy as officially stated by the University will be enforced. Students are expected to make arrangements with the instructor before missing a series of classes due to job requirements. Students are responsible for any material missed during an absence. In all cases, the responsibility remains with the students to meet/obtain all course requirements/changes. If you are not present the class period your presentation is scheduled, the presentation grade is zero. Regular course progress is expected. It is each student's responsibility to review Canvas and the syllabus for the latest information, assignments and examinations. NOTE: Attendance will be taken each class period. Attendance will count as 10% (100 Points) of your total grade.
- 2. Homework:** Homework will be assigned after each chapter and is intended to reinforce the concepts discussed in class. Groups may work together on homework. Each homework assignment will be worth 10 points, but only the top 10 will count (100 points total or 10%).
- 3. Hands-On Exercises:** After each chapter you will have a Hands-On Project to complete. Hands-On Exercises are to be **individual** work and any collaboration will result in a 0 for all collaborators! Each will be worth 10 points, but only the top 10 will count (100 points total or 10%)
- 4. Group Project:** In addition to the paper and homework, there will be a term "Project". The project may be a single semester-long project, several labs spread throughout the semester, or some other configuration. This is a group project and each group needs to work independently from the other groups. Any working together will result in a grade of 0 for all participants. The project will be worth 30% (300 points) of your grade. See project description on Canvas for more details.
- 5. Examinations:** There will be a final exam worth 200 points (20%) and will cover all 13 Chapters of the book and anything else we discuss in class. Makeup exams will be given ONLY when arrangements have been made PRIOR to the class meeting. NOTE: Late exams will NOT be accepted.

6. Term Research Paper: Each Student will be required to write a Research Paper. In the required paper, students will select and explore a current topic/trend in telecommunications for a specific (student selected) industry. It will consist of at least five double spaced pages (not including title page, table of contents, bibliography, appendixes, etc.) in length with 1" margins formatted in APA style. This is a professional paper – do not use informal language. Do not over quote your references, instead summarize what they say in your own words, and provide reference to the article. **Every claim you make in the paper should have a peer-reviewed academic reference. Wikipedia is NOT academic and should not be used** unless it is unavoidable. The paper must be submitted in MS Word format (.rtf, .doc, .docx). More information about the paper will be distributed by the 4th week of class. There will be three preliminary deliverables and a presentation worth 20 points each. There are also two discussion parts worth 5 points each. The final paper will be worth the remaining 100. (total: 200pts or 20%).

NOTE: I take a hard line on plagiarism. Plagiarism will not be tolerated. Any paper containing plagiarism will be given a score of 0 and the student will be referred to Student Affairs for Academic Integrity Violation.

A grading rubric for the paper can be found in Appendix A: Research Paper Rubric.

7. Late Submissions: Homework Assignments will be considered late if submitted after the due date/time. A late penalty of 5% per DAY (max of 20% deduction per week) will be applied. That means that NO submissions will be accepted if submitted more than 5 weeks after the due date. In addition, discussions MUST be completed within the week during which the discussion is assigned (i.e. **late discussions will NOT be allowed**). **Late tests will NOT be accepted!**

NOTE: **NO** work will be accepted after 5/11/2018.

8. Other Notes about assignments:

Most (ALL) assignments will be submitted via Canvas.

8.1 All assignments are due at the beginning of the next class day after being assigned.

8.2 If there are multiple parts, submit all parts in a **SINGLE** zip file. I would suggest you create a folder for each assignment, then you can zip that entire folder at once.

8.3 Make sure all parts are labelled in a logical manner that makes it easy for me to figure out which part of the assignment is which.

Grading Criteria Rubric and Conversion

Assignment	Points	Percent	My Grade
Final Exam	200	20%	
Group Project	300	30%	

Percentage	Points	Grade
90.0-100%	900-1000	A
80.0-89.9%	800-899	B

Term Paper	200	20%	
Hands-On	100	10%	
Homework	100	10%	
Participation	100	10%	
Total	1000	100%	

70.0-79.9%	700-799	C
60.0-69.9%	600-699	D
0-59.9%	0-599	F

Posting of Grades

All student grades will be posted on the Canvas Grade book and students should monitor their grading status through this tool. Grades for weekly assignments, discussions, quizzes and exams *should* be posted (no guarantees) within 7 days following the due date.

Canvas Grade Book has weighted columns for each of the groups of assignments (Homework, Hands-On, Research Paper, Group Project, Exam, and Participation) as well as a weighted column for the entire course. These columns put 0's for all incomplete assignments, so they all start at 0% and go up as you submit assignments. So, at any given time, you can see what your grade would be if you did no additional work.

COURSE OUTLINE AND CALENDAR

Important University Dates:

January 2018

January 15, (Monday) Martin L. King Jr. Day

January 16, (Tuesday) ADD/DROP/LATE REGISTRATION BEGINS (\$25 fee assessed for late registrants) (16 week & 1st 8 week)

January 16, (Tuesday) Classes Begins

January 18, (Thursday) ADD/DROP/LATE REGISTRATION ENDS (16 week & 1st 8 week)

January 31, (Wednesday) Last day to drop 16 week classes with no record

February 2018

February 2, (Friday) Priority Deadline to Submit Graduation Application

March 2018

March 2, (Thursday) Deadline to Submit Graduation Application for Ceremony Participation

March 9, (Friday) Deadline for Admissions applications

March 12, (Monday) Spring Break Begins

March 16, (Friday) Spring Break Ends

March 19, (Monday) Summer Advising Starts

March 19, (Monday) Class Schedule Published

March 30, (Friday) Last day to drop a 16-week course with a Q or withdraw with a W

April 2018

April 1, (Sunday) GRE/GMAT scores due to Office of Graduate Studies

April 2, (Monday) Scholarship Deadline

April 2, (Monday) Registration begins

April 5, (Thursday) Priority Deadline for International Student Admission Applications

April 13, (Friday) Deadline for submission of final committee-edited theses with committee approval signatures to Office of Graduate Studies

April 27, (Friday) Student End of Course Survey Opens (16 Week and 2nd 8-Week Classes)

May 2018

May 7-11, Finals Week

May 11, (Friday) Last day to file for Degree Conferral (Registrar's Office)(\$20 Late Application Fee applies)

May 11, (Friday) Spring Term Ends

May 11, (Friday) Last day to withdraw from the university (16 week and 2nd 8 week classes)

May 11, (Friday) Last day to apply for \$1000 Tuition Rebate for Spring graduation (5pm)

May 12, (Saturday) Commencement Ceremony Bell County Expo Center 7:00 p.m.

May 13, (Sunday) Student End of Course Survey Closes (16 Week and 2nd 8-Week Classes)

Week	Date	Chapter(s)	Assignment(s) for the Week – Due in 1 Week @ the beginning of Class (6:00pm)
1	1/18/2018	Syllabus/Introductions Chapter 1	Syllabus Acknowledgement Introduction Discussions, Chapter 1 Homework
2	1/25/2018	Chapter 2	Chapter 2 Homework Term Paper Topic Selection Discussion
3	2/1/2018	Chapter 3	Chapter 3 Homework Group Project Schedule
4	2/8/2018	Chapter 4	Chapter 4 Homework Term Paper Proposal
5	2/15/2018	Chapter 5	Chapter 5 Homework
6	2/22/2018	Chapter 6	Chapter 6 Homework
7	3/1/2018	Chapter 7	Chapter 7 Homework Term Paper Outline Group Project Draft Floor Plan
8	3/8/2018	Chapter 8	Chapter 8 Homework
9	3/15/2018	Spring Break - No Class!	
10	3/22/2018	Chapter 9	Chapter 9 Homework
11	3/29/2018	Chapter 10	Chapter 10 Homework
12	4/5/2018	Chapter 11	Chapter 11 Homework Term Paper Rough Draft Group Project Draft Equipment List
13	4/12/2018	Chapter 12	Chapter 12 Homework
14	4/19/2018	Chapter 13	Chapter 13 Homework
15	4/26/2018	Presentations	Paper/Group Presentations
16	5/3/2018	Presentations	Paper/Group Presentations
17	5/10/2018	Final Exam	NOTE: These assignments are Due 5/10/2018): Final Paper, Final Exam, Final Project Due

TECHNOLOGY REQUIREMENTS AND SUPPORT

Technology Requirements

This course will use the A&M-Central Texas Instructure Canvas learning management system. Logon to A&M-Central Texas Canvas [<https://tamuct.instructure.com>].

Username: Your MyCT username (xx123 or everything before the "@" in your MyCT e-mail 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.

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): [<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 a [Drop Request Form](https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf) [https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf].

Professors 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, signed and returned. Once you return the signed 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, 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 reported 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.

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 Department 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 Department of Access and Inclusion at (254) 501-5831. Any information you provide is private and confidential and will be treated as such.

For more information please visit our [Access & Inclusion](https://www.tamuct.edu/student-affairs/access-inclusion.html) webpage [https://www.tamuct.edu/student-affairs/access-inclusion.html].

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and 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. For more information, please visit <https://www.tamuct.departments/index.php>. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these [requirements and guidelines online](http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf), 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 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, both on-campus and online. On-campus subjects tutored include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111. If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or any other question, contact Academic Support Programs at

254-519-5796, or by emailing Dr. DeEadra Albert-Green at deeadra.albertgreen@tamuct.edu.

Chat live with a tutor 24/7 for almost any subject on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log-in and receive FREE online tutoring and writing support. This tool provides tutoring in over forty subject areas. Access Tutor.com through Canvas.

University Writing Center: Located in 416 Warrior Hall, the University Writing Center (UWC) at Texas A&M University-Central Texas is a free workspace open to all TAMUCT students from 10am-5pm Monday-Thursday with satellite hours in the University Library Monday-Thursday from 6:00-9:00pm. Students may arrange a one-on-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 [WCOOnline](#) at [<https://tamuct.mywconline.com/>]. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu to schedule an online tutoring session. 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 University Writing Center is here to help!

If you have any questions about the University Writing Center, please do not hesitate to contact Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu.

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 72,000 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 twenty-four 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](https://tamuct.libguides.com/) [https://tamuct.libguides.com/].

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) [https://www.tamuct.edu/departments/compliance/titleix.php].

INSTRUCTOR POLICIES.

1. Instructor reserves the right to modify the syllabus during the course of the semester for the benefit of the students.
2. Instructor reserves the right to supplement the material presented in the text with additional material that may benefit the students by either providing additional information or a different point of view.
3. Instructor expects that the students will act in a curious and professional manner in all interactions with other students and the instructor.
4. Instructor reserves the right to modify grading rubrics. Changes to grading rubrics are only made to current and/or future assignments.
5. Any changes made will be announced on Canvas.

Copyright Notice.

Students should assume that all course material is copyrighted by the respective author(s). Reproduction of course material is prohibited without consent by the author and/or course instructor. Violation of copyright is against the law and Texas A&M University-Central Texas' Code of Academic Honesty. All alleged violations will be reported to the Office of Student Conduct.

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Appendix A
Research Paper Rubric

Criteria	Points	Met Criteria	Partially Met Criteria	Did Not meet Criteria
Focus on topic	10	Paper clearly addresses the assigned topic = 10 points	Paper does not clearly address topic = 5 points	Paper does not meet the objectives of the assignment = 0 points
Logical Flow	10	Paper follows a logical flow from one topic to another. Includes sections (with appropriate headings) when necessary = 10 points	Paper somewhat follows a logical flow from one topic to another. Includes some sections (with appropriate headings) = 5 points	Paper does not follow a logical progression = 0 points
References	20	Uses All Peer reviewed journals = 20 points	Uses mostly Peer reviewed, but includes a few Web-based references = 10 points	Has no references or only Web-Based references = 0 points
Citations	20	Sufficiently cited with APA format citations and references = 20 points	Mostly cited with APA format citations and references = 10 points	No citations or not in APA format = 0 points
APA Style	20	Fully follows APA guidelines = 20 points	Partially follows APA guidelines = 10 points	Does not follow APA guidelines = 0 points
Spelling & Grammar	10	Active voice used, no spelling and no grammar problems. = 10 points	Less than ten spelling or grammar issues (including use of passive voice) = 5 points	More than ten spelling or grammar issues (including use of passive voice) = 0 points
Writing Style	10	Writing is clear and academic. No first person, no contractions, no informal language = 10 points	Less than three uses of informal language = 5 points	Use of first person or more than three uses of informal language = 0 points