

CIS 4335-110 Unix System Administration and Programming
Spring 2018
Texas A&M University - Central Texas

INSTRUCTOR AND CONTACT INFORMATION

Instructor: Emmet Gray

Office: FH 323N

Phone: (254) 519-5784, COBA Admin - (254) 519-5437

Email: Canvas Inbox (preferred) or TAMUCT email (e.gray@tamuct.edu)

Office Hours:

Tue/Thr 4:15-5:15. Also, I can meet with students at the university by appointment.

Mode of instruction and course access:

This is a face to face course that makes extensive use of the TAMUCT Canvas Learning Management System (<https://tamuct.instructure.com>). 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 Canvas several times a week for updates.

Student-instructor interaction:

I typically respond to Canvas email within 24 hours except on weekends. I am available during office hours to meet with students. I can also meet with students at the university by appointment.

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>] 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:

Examine the underlying conceptual considerations of the UNIX operating system and its variants in mainframe, minicomputer, server and microcomputer application environments. Explore memory and process management, multi-programming and processing, interrupt structure, and parallel processing mechanisms and procedures. Special emphasis on practical application of configuration and programming of selected UNIX systems.

Course Objective:

This course is an introduction to the Linux operating system, and covers the essential duties of a system administrator, such as: installing the OS, controlling access, adding hardware, automating tasks, overseeing backups, installing and upgrading software, and vigilantly monitoring security.

Student Learning Outcomes:

A student successfully completing this course will be able to:

- Use the Linux shell, navigate the file system, and use common commands
- Demonstrate the ability to install and configure a Linux server
- Explain the concepts of authentication, authorization, and controlling user access
- Identify the steps in adding physical hardware
- Demonstrate the ability to automate simple admin tasks
- Describe the concepts of the file system and network access
- Explain basic software installation and management tasks
- Demonstrate an understanding of security technologies

Competency Goals Statements (certification or standards):

Section not used

Required Reading and Textbook(s):

Required:

UNIX and Linux System Administration Handbook, 5th Edition

Authors: Nemeth, Snyder, Hein, Whaley & Mackin

Publisher: Addison-Wesley Professional

Edition: 5th

ISBN: 978-0-13-427755-4

The Linux Command Line, 4th Internet Edition

Author: William Shotts

Publisher: <http://linuxcommand.org/tlcl.php>

Edition: 4th

Note: An electronic version of the book may be available.

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.

Supplemental Material:

The course textbook will be supplemented with other materials including lecture notes, handouts, oral presentations, industry articles, research paper readings, case studies, Power Point presentations etc.

Required Reading:

The student is expected to read and review all material presented in the assigned chapter prior to class.

COURSE REQUIREMENTS

Course Requirements

Examinations: There will be two exams, one midterm and one final exam. Each is worth 15 points. The midterm covers chapters TLCL 1-12 and UALSAH 1-4 and the final covers UALSAH chapters 5-8, 13, 21, and 27. Exams will be conducted in class, and will be timed.

Quizzes: There will be 6 take-home small quizzes. Each quiz is worth 5 points. The quizzes will be available via Canvas for a short period of time (typically 1 week), must be completed in one session, and be will timed.

Assignments: There will be 6 take-home assignments. Each assignment will be worth 5 points. Assignments will typically be available on Canvas for 2 weeks. Multiple submissions are typically allowed. If an assignment has multiple files, you will be required to “zip” the files prior to submission via Canvas.

Term Project: There will be 1 term project that is worth 10 points. This assignment will typically be available on Canvas for 4 weeks.

Item	Quantity	Points	Total	Percent
Exams	2	15.00	30.000	30%
Quizzes	6	5.00	30.000	30%
Assignments	6	5.00	30.000	30%
Term Project	1	10.00	10.000	10%
Total			100.000	100%

Grading Criteria Rubric and Conversion

Exams & Quizzes: Exams and quizzes will receive a numeric score (0-100) each. Scores will be converted to points and totaled as shown in the example below:

Quiz	Score	Percent	Max Points	Points
Quiz 1	95	95%	5.00	4.75
Quiz 2	100	100%	5.00	5.00
Quiz 3	80	80%	5.00	4.00
Quiz 4	85	85%	5.00	4.25
Quiz 5	86	86%	5.00	4.30
Quiz 6	88	88%	5.00	4.40

Requirements for Assignments: Assignments must follow the requirements as stated in the Canvas assignment system; demonstrate the concepts; have original content, be organized, and

use proper English.

The following grading rubric is used for assignments:

Criterion	% of Grade	Excellent (100%)	Adequate (80%)	Poor (60%)	Not Met (0%)
Assignment Requirements	25%	Meets all of the requirements of the assignment	Minor details of the requirements are missing	Significant details of the requirements are missing	Significant portions of the requirements are missing
Chapter Specific Objectives	30%	Fully demonstrates the concepts of the chapter	Applies major and minor concepts of the chapter	Applies major concepts of the chapter	Chapter concepts not in evidence
Original Content	25%	>20% is original content	Between 15-20% original content	Between 10-15% original content	<10% original content
Readable / Organized	15%	Assignment is well organized, easy to understand, good content flow	Minor issues with formatting, content flow	Majority of assignment has formatting or content flow issues	No formatting or content flow
Spelling / Grammar	5%	No spelling or grammar issues	Less than 3 spelling or grammar issues	Between 3-5 issues	Greater than 5 issues

Conversion: Numeric scores are converted to letter grades as follows:

Note: I do not round up numeric scores

Grade	Points	Percent
A	90 - 100 points	90 - 100%
B	80 - 89 points	80 - 89%
C	70 - 79 points	70 - 79%
D	60 - 69 points	60 - 69%
F	0 - 59 points	0 - 59%

File Naming Convention: Submit your assignments via Canvas using file names with the following format:

CIS4335 [AssignmentID] [LastName.FirstName].[extension]

Example:

CIS4335 Assignment1 Doe.John.docx

Late Policy: Exams, Quizzes, and Assignments are due by midnight on the date assigned in Canvas. Typically, this is 11:59 PM on Thursdays. A 5-point penalty will be assessed for each day a requirement is late.

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 will be posted within 7 days after of the due date.

COURSE OUTLINE AND CALENDAR

Complete Course Calendar

Class	Date	DOW	Class Activity	What's Due	Notes
1	01/16/2018	Tue	Intro & Chapter 1		
2	01/18/2018	Thu	Install	Syllabus Quiz	
3	01/23/2018	Tue	TLCL Chapters 1-2		
4	01/25/2018	Thu	TLCL Chapters 3-4	Assignment 1	
5	01/30/2018	Tue	TLCL Chapters 5-6		
6	02/01/2018	Thu	TLCL Chapters 7-8	Quiz 1	
7	02/06/2018	Tue	TLCL Chapters 9-10		
8	02/08/2018	Thu	TLCL Chapters 11-12	Assignment 2	
9	02/13/2018	Tue	Chapter 2		
10	02/15/2018	Thu	Chapter 2	Quiz 2	
11	02/20/2018	Tue	Chapter 3		
12	02/22/2018	Thu	Chapter 3	Assignment 3	
13	02/27/2018	Tue	Chapter 4		
14	03/01/2018	Thu	Chapter 4	Quiz 3	
15	03/06/2018	Tue	Review		
16	03/08/2018	Thu	Midterm Exam	Exam (in class)	
	03/13/2018	Tue			Spring Break
	03/15/2018	Thu			Spring Break
17	03/20/2018	Tue	Chapter 5		
18	03/22/2018	Thu	Chapter 5	Assignment 4	
19	03/27/2018	Tue	Chapter 6		
20	03/29/2018	Thu	Chapter 6	Quiz 4	
21	04/03/2018	Tue	Chapter 7		
22	04/05/2018	Thu	Chapter 7	Assignment 5	
23	04/10/2018	Tue	Chapter 8		
24	04/12/2018	Thu	Chapter 8	Quiz 5	
25	04/17/2018	Tue	Chapter 13		
26	04/19/2018	Thu	Chapter 13	Assignment 6	
27	04/24/2018	Tue	Chapter 21		
28	04/26/2018	Thu	Chapter 21	Quiz 6	
29	05/01/2018	Tue	Chapter 27		
30	05/03/2018	Thu	Chapter 27	Term Project	
31	05/08/2018	Tue	Review		
32	05/10/2018	Thu	Final Exam	Exam (in class)	

University Calendar

Date	Activity
01/15/2018	Martin L. King Jr. Day
01/16/2018	ADD/DROP/LATE REGISTRATION BEGINS
01/16/2018	Classes Begins
01/18/2018	ADD/DROP/LATE REGISTRATION ENDS (16 week & 1st 8 week)
01/23/2018	Last day to drop 1st 8-week classes with no record
01/31/2018	Last day to drop 16 week classes with no record
02/02/2018	Priority Deadline to Submit Graduation Application
02/09/2018	Last day to drop a 1st 8-week class with a Q or withdraw with a W
02/15/2018	Last day to apply for Clinical Teaching
02/23/2018	Student End of Course Survey Opens (1st 8-Week Classes)
03/01/2018	Deadline to submit application to Teacher Education Program
03/02/2018	Deadline to Submit Graduation Application for Ceremony Participation
03/09/2018	1st 8 week classes end
03/09/2018	Deadline for Admissions applications
03/11/2018	Student End of Course Survey Closes (1st 8-Week Classes)
03/12/2018	Spring Break Begins
03/12/2018	1st 8-week grades from faculty due by 3pm
03/15/2018	Tuition and Fee Payment Deadline (2nd 8-week classes)
03/16/2018	Spring Break Ends
03/19/2018	2nd 8 week begins
03/19/2018	Summer Advising Starts
03/19/2018	Class Schedule Published
03/19/2018	ADD/DROP/LATE REGISTRATION BEGINS
03/21/2018	ADD/DROP/LATE REGISTRATION ENDS (2nd 8-week classes)
03/27/2018	Last day to drop 2nd 8-week classes with no record
03/30/2018	Last day to drop a 16-week course with a Q or withdraw with a W
04/01/2018	GRE/GMAT scores due to Office of Graduate Studies
04/02/2018	Scholarship Deadline
04/02/2018	Registration begins
04/05/2018	Priority Deadline for International Student Admission Applications
04/13/2018	Last day to drop a 2nd 8-week class with a Q or withdraw with a W*
04/13/2018	Deadline for submission of final committee-edited theses
04/27/2018	Student End of Course Survey Opens (16 Week and 2nd 8-Week Classes)
05/07/2018	Finals Week
05/11/2018	Last day to file for Degree Conferral (Registrar's Office)
05/11/2018	Spring Term Ends
05/11/2018	Last day to withdraw from the university (16 week and 2nd 8 week classes)
05/11/2018	Last day to apply for \$1000 Tuition Rebate for Spring graduation (5pm)

Date	Activity
05/12/2018	Commencement Ceremony Bell County Expo Center 7:00 p.m.
05/13/2018	Student End of Course Survey Closes (16 Week and 2nd 8-Week Classes)
05/15/2018	Last Day to clear Thesis Office
05/15/2018	Final grades due from faculty by 3pm (16 week & 2nd 8 week)

INSTRUCTOR POLICIES

Policies related to absence, grading, etc.

- You are responsible for all class material presented during an absence.
- All work is submitted through Canvas and due on the specified due date/time.
- A penalty of 5 points per day is applied to late Exams, Quizzes, and Assignments.
- Most assignments can be submitted multiple times, even after grading
- Late penalties are also applied to resubmitted items
- Missed exams, quizzes, and assignments will receive a grade of zero.

My Personal Statement

- You will receive feedback in the form of graded assignments within 7 days after the due date.
- I want you to read the feedback that I provide to you (your personal grading notes, Canvas emails, and Canvas discussion forums).
- I am almost always available via email and typically respond within 24 hours except on weekends.
- I prefer email over phone conversations

Copyright Notice.

Section Not Used

TECHNOLOGY REQUIREMENTS AND SUPPORT

Technology Requirements.

This course will require that you produce Microsoft Word documents. Students may be able to obtain copies of Microsoft Office products through the University (see: <http://www.tamuct.edu/departments/informationtechnology/index.php>)

Each student may need a portable hard drive for this course in order to transport files back and forth from a University PC to your home PC. If required, I recommend that you get a “self-powered” USB 3.0 based hard drive of at least 250 Gb in size. *I do NOT recommend that you use a USB-Flash drive.*

You will need to install VirtualBox on your PC at home. See: <http://www.virtualbox.org>

This course will use the TAMUCT Instructure Canvas learning management system.

Logon to TAMUCT Canvas [<https://tamuct.instructure.com>]

Username: Your MyCT username

(xx123 or everything before the "@" in your MyCT e-mail address)

Password: Your MyCT password

Technology Support.

For technology issues, 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.

For issues with Canvas, select “chat with Canvas support,” submit a support request to Canvas Tier 1, or call the Canvas support line: 1-844-757-0953, links to all are found inside of Canvas using the “Help” link. For issues related to course content and requirements, contact your instructor.

Technology issues are not an excuse for missing a course requirement – make sure your computer is configured correctly and address issues well in advance of deadlines.

COURSE AND UNIVERSITY RESOURCES, PROCEDURES, AND POLICIES

Drop Policy

If you discover that you need to drop this class, you must complete a Drop Request Form, found through the [Registrar's web page](#):

<https://www.tamuct.edu/departments/business-office/droppolicy.php>

Professors cannot drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the University 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-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 webpage](#):

<http://www.tamuct.edu/departments/access-inclusion>.

TAMUCT 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](#), please visit: <http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf>.

Tutoring

Tutoring is available to all TAMUCT 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 Kim Wood at k.wood@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 TAMUCT 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.

The 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-4pm Monday-Thursday during the Summer semester (June 5, 2017 to July 27, 2017). 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). 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 TAMUCT 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 TAMUCT 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 [homepage](https://tamuct.libguides.com/): <https://tamuct.libguides.com/>