



Fall 2026 Syllabus:

Ken Loveday

Office: Brinkley Office Suite 171

Office Hours:

Tuesday : 2:45 pm – 4:15 pm

Thursday :2:45 pm – 4:15pm

Friday: 8:00 AM - 12:00 PM

e-mail: loveday@etsu.edu

Course Details:

CRN	Course	Title	Instructor	Day	Time	Location
83346	CSCI 2400-001	PC Computer Hardware and Network Administration	Loveday	M/W	9:25 AM	Nicks 331
83347	CSCI 2400-002	PC Computer Hardware and Network Administration	Loveday	M/W	12:35 PM	Nicks 331
83348	CSCI 2400-003	PC Computer Hardware and Network Administration	Loveday	T/TR	10:10 AM	Nicks 331

I reserve the right to change or modify the syllabus or the course at any time during the semester for any reason.

Course Web Page: This course uses ETSU's D2L server for on-line content.

Catalog Description: The course provides students with a practical introduction to computer installation, maintenance, and operation with special emphasis on PCs. Hands-on experience with PC internals will be provided. Upon completion of the course, the student will be able to describe the principles of PC operation, configure and set up PCs, troubleshoot and correct PC-related failures, and perform simple maintenance, upgrading, and performance tuning on PCs.

Prerequisite: CSCI 1100

Credit: 3 credit hour

Outcomes: We expect students completing this course to be able to:

- describe the purpose of BIOS and CMOS setup and their function in a computer system; (Student Outcome 3)
- identify the purpose and operation of a computer system's internal components; (Student Outcomes 3, CS-1, IT-2)

- install and upgrade a computer system's hardware components; (Student Outcome 3) ○ diagnose and correct common computer system failures; (Student Outcomes 3, 4, IT-2)
install and troubleshoot device drivers; (Student Outcomes 3, 4, IT-2)
- prepare a system image for the purpose of recovery and/or dissemination; (Student Outcomes 3, IS-1) ○ create and utilize virtual machines; (Student Outcomes 3, IS-1)
- install operating systems; and ○ Install and troubleshoot applications. (Student Outcomes 3, 4, IS-1, IT-2)

Major Topics: Each week, the students will perform a laboratory experiment focusing on the installation or troubleshooting of PC hardware, the installation of operating systems, or the installation of software. The labs will include but are not limited to:

- BIOS configuration
- Flash BIOS upgrade
- Hard drive installation and partitioning
- Installation of multiple operating systems
- Application/program installation on multiple operating systems
- Creation and deployment of a hard drive backup image
- Machine virtualization
- I/O device and driver installation
- OSI Model
- Switches
- Routers
- Servers
- Network Monitoring
- PC system troubleshooting and repair

Campus Safety:

East Tennessee State University is dedicated to creating a safe and healthy environment for all students, faculty, staff, and visitors by fostering a strong culture of safety that extends beyond compliance with regulations. All members of the ETSU community play a crucial role in this shared responsibility. You are encouraged to report any issue without fear, ensuring a supportive environment. As Buccaneers, make safety a priority and contribute to a positive, productive campus community by:

- Downloading and utilizing the ETSU Safety App.

- Participating in discussions about emergency procedures at the beginning of the semester.
- Becoming familiar with emergency procedures and resources on the sites below.

[Emergency Management](#) - Faculty Emergency Guide/Emergency Training /Campus Emergency Plan/ Building Safety

[ETSU Police](#) - Reporting Crimes, Assaults/Cleary Act/Reports and Information

[Safe Voyage Shuttle/Escort](#) - Student Safety Services

Required Text(s):

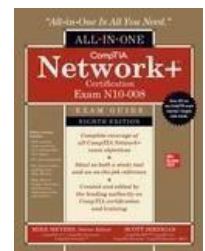
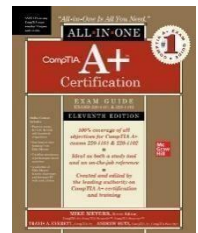
There will be assigned readings for the labs from an on-line text available online thru ETSU's subscription to Safari.

You can access the online books from an off campus location by visiting or by going <http://libs.etsu.edu/links/safari.html>. Just put your ETSU username (the one you use for email and D2L) and the corresponding password for that username.

The

[CompTIA A+ Certification All-in-One Exam Guide, Eleventh Edition \(Exams 220-1101 & 220-1102\), 11th Edition , by Mike Meyers](#)

following Safari books will be required for this course.



- [CompTIA Network+ Certification All-in-One Exam Guide, Eighth Edition \(Exam N10-008\), 8th Edition](#)

For students who would like an additional reading resource for this course, the library also has a copy of:

- *CompTIA A+ Guide to Managing and Troubleshooting PCs*, 3rd Edition, by M. Jernigan Meyers, 2010

Grade corrections

It is your responsibility to check your grades regularly. If you find what you believe to be an error, you should bring it to your instructor's attention. You must request a grade correction within two weeks of the grade posting. After two weeks, the grade will be considered permanent, and no corrections will be granted.

Grading Policy:

Each student's grade for this course will be based on weekly evaluations. Each week, the student will take a quiz outside of class and perform a laboratory exercise at the end of class to demonstrate their proficiency in the topic presented during the previous week. The typical quiz will take between ten and fifteen minutes. The student's final grade will be a weighted grade as determined below.

<u>Percentage of Grade</u>
Labs 30%
Quizzes 40%
Midterm 15%

Final 15%

The table below presents the translation between a student's total score and his or her final grade.

Grade	Grading Scale Percent cutoff (minimum score to receive grade)
A	93
A-	90
B+	87
B	83
B-	80
C+	77
C	73
C-	70
D+	67
D	60
F	0 to less than 60

Attendance Policy:

There will be a graded quiz or exercise each week. Missing three or more of these graded assessments will result in a failing grade for the course.

Making Up Missed Quizzes or Exercises

None – Quizzes/Exercises cannot be made-up

Posting of grades:

The following is copied from [Section 5.9](http://www.etsu.edu/senate/facultyhandbook/) of the East Tennessee State Faculty Handbook which is available on-line at <http://www.etsu.edu/senate/facultyhandbook/>:

"In order to be in compliance with provisions of the *Family Educational Rights and Privacy Act of 1974* (Buckley Amendment), the posting of student grades at East Tennessee State University is prohibited. Interpretations of the Buckley Amendment have also prohibited the use of any codes such as Social Security numbers and other devices that might make identification of a student and his/her grade still possible. 12/03/87

As a result, the distribution of grades through e-mail and/or over the phone is also not allowed. Grades will, however, be posted to D2L as they become available.

Grading Of Labs:

You will do lab discussion boards for each lab. You must post to each discussion and then comment on two of your classmates' posts. You get the first third of your grade for your post. The other two thirds of your grade come from the comments on two of your classmates' posts. I will grade your post and leave my own comment. If you have not commented on your other classmates' posts, I will let you know in the comments along with my comment on your post. Please read the comments each week.

Expectations, Attendance, and Participation

Each student is expected to attend class (see note above). Attendance is taken each class lecture period. After missing your second lecture, each additional absence will result in a one final grade decrement (e.g. A to A-, B+ to B, etc.). You must attend at least two-thirds of a day's scheduled class time to be considered present. Repeated lateness or early departures may be counted as an absence at the discretion of the instructor.

Course Schedule:

Week	Lecture	Quiz	Lab	Reading
1/ August 24	Intro/Professionalism	1	Lab 0 Professionalism	A + Chapters 1 & 2
2/ August 31	Motherboards/CPU's	2	Lab 1 Motherboard	A + Chapters 3 & 6
3/ Sept. 7	RAM/Firmware	3	Labs 2, 3 CPU/ RAM	A + Chapters 4 & 5
4/ Sept. 14	Drives	4	Lab 4 Disk Drive Lab 5 Optical drive	A + Chapters 8 & 9
5/ Sept. 21	Power Supply/Displays	5	Lab 6 Exp. Card Lab 7 Power supply	A + Chapters 7 & 17
6/ Sept. 28	Troubleshooting	6	Lab 8 Monitor and Peripherals	A + Chapters 14 & 16
7/ Oct. 5	Windows Utilities	7	Lab 9 Windows Utilities and Troubleshooting	A + Chapters 11 & 12
8/ Oct. 12/ Midterm	Permissions, Command Line	8	Lab 10 Command Line	A + Chapters 13 & 15
9/Oct. 19	Essentials of Networking	9	Lab 11 OSI Model Lab	A + Chapter 18 Network + Chapters 7 & 11
10/ Oct. 26	Lans and Wireless	10	Lab 12 Wireshark Lab	A + Chapters 19 & 20 Network + Chapters 1 & 20
11/ Nov. 2	Virtualization	11	Lab 13 Windows install	A + Chapters 21 & 22
12/ Nov. 9	Mobile Devices	12	Lab 14 Clonezilla	A + Chapters 23 & 24
13/ Nov. 16	Printers	13	Lab 15 Fedora Install	A + Chapters 25 & 26
14/ Nov. 23	Thanksgiving			
15/ Nov. 30	Security	14		A + Chapters 27 & 28
16/Dec.7	Finals			

Academic Integrity:

Student-teacher relationships are built on trust. For example, students must trust that teachers have made responsible decisions about the structure and content of the course, and teachers must trust that work submitted by a student was indeed done by the student. Acts which violate this trust undermine the educational process and are inconsistent with our very reason for being at ETSU.

You are encouraged to discuss the material and issues addressed in the course, including assignments, with members of the class and others. Helping one another find and understand problems in assignments is permitted as long as an honest individual attempt has been made to solve the problem. Everyone, however, must do his/her own work. Completing an assignment "by committee" and submitting it as an individual work is academic misconduct unless the assignment has been clearly designated as a team assignment. Your name on submitted work is an affirmation that the work is yours.

The following is taken from section 5.7 "Academic Misconduct" of the East Tennessee State University Faculty Handbook, June 1, 2001:

"Academic misconduct will be subject to disciplinary action. Any act of dishonesty in academic work constitutes academic misconduct. This includes plagiarism, the changing of falsifying of any academic documents or materials, cheating, and the giving or receiving of unauthorized aid in tests, examinations, or other assigned school work. Penalties for academic misconduct will vary with the seriousness of the offense and may include, but are not limited to: a grade of 'F' on the work in question, a grade of 'F' of the course, reprimand, probation, suspension, and expulsion. For a second academic offense the penalty is permanent expulsion.

"Plagiarism is defined as follows by Black, Henry Campbell, Black's Law Dictionary, West Publishing Company, St. Paul, Minnesota, 1968 (p. 1308): 'The act of appropriating the literary composition of another, or parts or passages of his writings, or the ideas or language of the same, and passing them off as the product of one's own mind.'

"Moreover, 'To be liable for plagiarism it is not necessarily to exactly duplicate another's literary work it being sufficient if unfair use of such work is made by lifting of substantial portion thereof, but even an exact counterpart of another's work does not constitute 'plagiarism' if such counterpart was arrived at independently' (O'Rourke vs. RKO Radio Pictures, D. C., Mass., 44F. Supp. 480, 482, 483)."

Special Accommodations:

Students with needs for note taking or test taking accommodations should make arrangements with the instructor during the first week of the term.

Laptop Policy:

The use of laptops or PDAs for the purpose of note taking or viewing the on-line course reading is permitted. **All other uses are prohibited.** Any student found to violate this policy will be asked to discontinue use of the device for the remainder of the class period. A second offense will result in the removal of the student's laptop privileges for the remainder of the semester.

Snow/ice:

Classes are seldom canceled; use your better judgment if main roads are snow-covered or icy. Please listen to the radio (WETS) or visit the University's Alert Page if there is any doubt about early morning classes being canceled or delayed.

Use of CSCI Laboratories:

The CSCI laboratories are for work pertaining to CSCI courses. You may not work in the Nicks Hall, Wilson-Wallis Hall, or Gilbreath Hall labs for purposes other than your assigned work in computer science classes. Failure to abide by this policy may result in the removal of your lab privileges which will result in a failing grade.

Food, drinks, and the use of tobacco products of any type are not permitted in any of the labs. In addition, tobacco products are not allowed on the ETSU campus. Please review the [CSCI Department's Laboratory Rules](#) for complete list of laboratory rules to be observed when using a CSCI laboratory.