



CST155 Introduction to Operating Systems

(3 credit hours)

Course Syllabus

Course Description

This course provides the student with extensive hands-on exposure to Windows and non-MS Windows environments. Included are such topics as interface design, disk and memory management, system configurations, multitasking, data sharing, and the network environment. Multiplatform operating systems will be introduced.

Course Learning Outcomes

By the end of this course, you will be able to:

1. Demonstrate a sound understanding of the minimum course topics as outlined below:
 - o Memory Management
 - o Virtual Memory Management
 - o Processor Management
 - o Process Management
 - o Concurrent Processes
 - o Device Management
 - o File Management
 - o Network Operations
 - o Network Function Management
 - o Operating System Security
 - o System Management
 - o UNIX, LINUX, MS-DOS
 - o Windows Operating System.
2. Apply the concepts to install, manage, configure, and uninstall operating systems.
3. Discuss and explain O.S. interoperability issues and platform differences.

Prerequisites/Corequisites

CST 111

Required Textbook(s) and Resources

For this course you will need to purchase the following materials:

- **Guide to Operating Systems, Tomsho, 5th Edition. ISBN: 978130510764-9**

Note: this course may contain additional resources for specific activities or modules. Be sure to read the instructions carefully for individual assignments or activities for those requirements. Where applicable, Tiffin University has obtained permission to use copyrighted material.

Visit the [Tiffin University Library](#) for access to databases, research help, and writing tips. A link is also available in the Course Home area. I also suggest you register for one of the library's many webinars on library research, source evaluation, copyright, and other topics, at the [Library Events - Upcoming Events](#) web page.

If you register but cannot attend a live session, the library will email you a link to the session recording after the event.

For further assistance email a librarian, at: library@tiffin.edu.

Time Commitment

Effective time management is possibly the single most critical element to your academic success. To do well in this online class you should plan your time wisely to maximize your learning through the completion of readings, discussions, and assignments. Because of our accelerated, seven-week term, TU online courses are designed with the expectation that you dedicate a little over **six (6)** hours per credit hour to course activities and preparation **each week**. For example, for successful completion of a three-credit, seven-week online course you should reserve roughly **twenty (20) hours per week**.

To help you plan your time and keep you on track toward successful completion, this course maintains a distinctive rhythm for assignment due dates:

1. All times assume Eastern Time (GMT-4).
2. Weeks begin at 12:00 a.m. ET on Monday and end at 11:55 p.m. ET on Sunday.
3. Unless otherwise noted, initial assignments or discussion posts are due by **11:55 p.m. ET on Wednesdays**.
4. Follow-up discussion posts may be due by **11:55 p.m. ET on Saturdays** or by **11:55 p.m. on Sundays**, so it is important to pay close attention to the "Due by.." date in each forum assignment.
5. Weekly TestOut Assignments and Projects are due by **11:55 p.m. ET on Sundays** each week, however, I have provided a *Recommended Progress section to help you pace your progress throughout the week in an effort to help you balance the workload throughout the week.

Learning Activities

Through this course you will be working through weekly assignments within TestOut PC Pro's simlab. These weekly assignments from the TestOut lab will be graded by chapter. Each chapter is worth a combined score of 30 points based off of your scores on all labs, exams, and quizzes in the chapter. It is important that you complete all of the material in each chapter to ensure the best possible grade for the assignment. Additionally, you will have a weekly installation or configuration project assigned in most weeks outside of TestOut.

Discussion Forums afford an opportunity for you to share your findings, thoughts, opinions, and questions with your peers in the course. When a forum is included as part of your weekly learning activities, be sure you pay close attention to the due dates and times for your initial response and for any required secondary responses to classmates.

Remember that I have provided a "Help Someone!" Questions and Answers (Q&A) Forum in the Communication Center as well. This is a great way to ask for or offer help as you work through the learning activities each week as needed. You can subscribe to this forum if you want to be notified when others post questions or responses to this Q&A Forum.

Grading

The chart below identifies the individual contributions from each type of activity, per module.

Activity	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Total
Discussion	28	28	n/a	27	n/a	27	0	110
TestOut Chapter Assignments	70	70	70	70	70	70	70	490
VMware Projects	50	50	50	n/a	50	50	n/a	250
TestOut Capstone Project (Ch. 14)	n/a	n/a	n/a	n/a	n/a	n/a	150	150
Total	148	148	120	97	120	147	220	1000

Grading Scale

Grade	Percentage
A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	<60%

Please see the [Academic Bulletin](#) for grade appeal information.

CST155 Schedule and Weekly Checklist

Topic	Learning Activities (Due by 11:55 p.m. ET on day designated)
Week 0: Start Here	<input type="checkbox"/> MON: Complete all tasks on the Orientation Activity Checklist.
Week 1: Computer Basics, OSs, and PC Tech	<input type="checkbox"/> WED: Initial Post: OS Advantages and Disadvantages (Forum) <input type="checkbox"/> SAT: Second Post: OS Advantages and Disadvantages (Forum) <input type="checkbox"/> SUN: TestOut PC Pro Chapter 1 (Labs and Quizzes) <input type="checkbox"/> SUN: TestOut PC Pro Chapter 2 (Labs and Quizzes) <input type="checkbox"/> SUN: VMware Installation (Project)
Week 2: Components, Peripherals, and Ubuntu	<input type="checkbox"/> WED: Initial Post: Latest Driver Installation ... (Forum) <input type="checkbox"/> SAT: Second Post: Latest Driver Installation ... (Forum) <input type="checkbox"/> SUN: TestOut PC Pro Chapter 3 (Labs and Quizzes) <input type="checkbox"/> SUN: TestOut PC Pro Chapter 4 (Labs and Quizzes) <input type="checkbox"/> SUN: Ubuntu Installation Project
Week 3: Storage & Networking	<input type="checkbox"/> SUN: TestOut PC Pro Chapter 5 (Labs and Quizzes) <input type="checkbox"/> SUN: TestOut PC Pro Chapter 6 (Labs and Quizzes) <input type="checkbox"/> SUN: Configure and Optimize Linux (Project)

Topic	Learning Activities (Due by 11:55 p.m. ET on day designated)
Week 4: Wireless Networking & Printing	<ul style="list-style-type: none"> <input type="checkbox"/> WED: Initial Post: Reflections: Week 3's Linux Configuration and Optimization Project (Forum) <input type="checkbox"/> SUN: TestOut PC Pro Chapter 7 (Labs and Quizzes) <input type="checkbox"/> SUN: TestOut PC Pro Chapter 8 (Labs and Quizzes) <input type="checkbox"/> SUN: Second Post: Week 3's Linux Configuration and Optimization Project (Forum)
Week 5: Mobile Devices & Systems Implementation	<ul style="list-style-type: none"> <input type="checkbox"/> SUN: TestOut PC Pro Chapter 9 (Labs and Quizzes) <input type="checkbox"/> SUN: TestOut PC Pro Chapter 10 (Labs and Quizzes) <input type="checkbox"/> SUN: Windows 10 OS Installation (Project)
Week 6: File & Systems Management	<ul style="list-style-type: none"> <input type="checkbox"/> WED: Initial Post: Anticipating and Reflecting: Windows Configuration and Organization Project (Forum) <input type="checkbox"/> SUN: TestOut PC Pro Chapter 11 (Labs and Quizzes) <input type="checkbox"/> SUN: TestOut PC Pro Chapter 12 (Labs and Quizzes) <input type="checkbox"/> SUN: Configure and Organize Windows 10 OS (Project) <input type="checkbox"/> SAT: Second Post: Anticipating and Reflecting: Windows Configuration and Organization Project (Forum)
Week 7: Security	<ul style="list-style-type: none"> <input type="checkbox"/> SUN: TestOut PC Pro Chapter 13 (Labs and Quizzes) <input type="checkbox"/> SUN: TestOut PC Pro Practice Exam A.3 <input type="checkbox"/> SUN: TestOut PC Pro Chapter 14: Capstone Project <input type="checkbox"/> SUN: Access Request: TestOut PC Pro Certification Exam

Tips for Success

Successful online learning requires a good deal of self-discipline and self-direction. As seekers of the truth, we should be willing to challenge and review one another's academic work in a spirit of respectful comradery and constructiveness. You should accept constructive feedback as a gift. Your course is a place for you to stretch and grow as you benefit from the expertise, knowledge, experience and diverse perspectives of your instructor and peers. Constructive feedback will challenge you to stretch your own thinking, thereby expanding your knowledge, understanding and application.

To get the most out of your learning experience, you should actively engage (participate) in **ALL** course activities. Course elements in any given week are arranged chronologically. To complete a week, simply work your way "down the page" through all of the course materials and activities.

Your Instructor Will Expect You to:

- Thoroughly review orientation materials (Start Here) within the first 48 hours of the term.
- Monitor your TU email account **daily** for important updates and announcements.
- Take ownership of your learning experience and act in a proactive, self-directed manner. That means:
 - Fully participate in all learning activities.
 - Complete assignments as described in rubrics or other instructions.
 - Submit all work on time and in the specified format (e.g. APA format for citations).
 - Utilize and incorporate instructor provided feedback to improve your work.
 - Ask questions so you can better understand course material or assignments.
 - Use the highest standards of intellectual honesty and integrity. For more information, see the TU Library guide: [Digital Literacy: Netiquette and Internet Safety](#).
 - Treat others respectfully and demonstrate "netiquette" (online politeness and respectfulness) at all times. TU celebrates cultural uniqueness and expects all students to be considerate and thoughtful throughout their learning experiences.

You Should Expect Your Instructor to:

In general, your instructor should advocate for your success as a learner and help guide you toward successful completion of the course activities and most importantly, attainment of the course learning outcomes. To accomplish this, your instructors should:

- Post an introductory announcement/email at the beginning of each week to provide updates and help you prepare for the week's activities.
- Maintain an active and engaged presence in all course activities and throughout the course.
- Respond to your emailed questions within 48 hours, if not sooner.
- Clearly communicate any absences or expected non-participation due to extenuating circumstances. For example, "I will be traveling to attend a funeral this week and may not be able to respond to questions or participate in forums for a couple of days."
- When grading your work, your instructor should:
 - clearly indicate their grading approach (what they like to see in submitted work as well as what types of errors they tend to penalize more harshly),
 - thoroughly review and evaluate your submissions in a timely manner (in less than 5 days for most assignments), and

- provide constructive feedback that indicates the strengths and weaknesses of your work and provides suggestions on how you can improve your performance on future assignments.
- In general, your instructor should advocate for your success as a learner and help guide you toward successful completion of the course activities and most importantly, attainment of the course learning outcomes.

Accommodations

The **Office for Disability Services** supports the institutional commitment to diversity by providing educational opportunities for qualified individuals with disabilities through accessible programs and services in compliance with Section 504 of the Rehabilitation Act of 1973 and Title III of the Americans with Disabilities Act (ADA) of 1990.

If you need reasonable accommodations due to a documented disability, contact the Office for Equity, Access, & Opportunity 419.448.3021 or via email at disabilityservices@tiffin.edu.

Additional Resources & Support

For technical support, either email moodlesupport@tiffin.edu or call the 24/7 Technical Support Call Center at 855-664-1200.

If you need to consult an academic advisor refer to our one-stop shop advising team list.

Website (Google Doc): [Online Graduate Academic Advisors](#)

Website (Google Doc): [Online Undergrad Academic Advisors](#)

For information about TU's peer tutoring program see the Murphy Center's [Tutoring Policies and Procedures](#) page. Veterans and active military can seek assistance from TU's [Veteran and Military Services Web Page](#).

Comments or Concerns

TU's online programs are designed to be student *driven*: to empower you with a voice and stake in your learning. Our courses feature multiple and varied ways that you can share feedback, and we invite you to become an active voice and help drive our improvement efforts. In addition to providing in-course feedback, we encourage you to submit questions or comments directly to the online team at online@tiffin.edu.