

**Computer Technology Department**  
**Business and Technology Division**  
**GREENVILLE TECHNICAL COLLEGE**

**COURSE SYLLABUS**

**Course Title: Operating Systems**

**Course Number: CPT 257**

**READ THIS SYLLABUS CAREFULLY**

You should read this syllabus carefully and ask your instructor about *any* aspects that you do not understand. The syllabus is an agreement between you and your instructor concerning course objectives, course content, grading, and other policies and procedures particular to this course. The following information is specific to the course. Three additional documents are provided as attachments and *are considered a part of this syllabus*:

Attachment 1:

Each instructor will provide a supplement to this syllabus. The supplement will include: a week-by-week plan of instruction based on the section in which you are enrolled; your instructor's name, office hours and/or office location; and your instructor's contact information and recommended best methods to contact your instructor.

Attachment 2:

The Department responsible for developing and teaching has policies and procedures in place to assure quality instruction for all students. These are attached as "Departmental Policies and Procedures."

Attachment 3:

Please note that it is your responsibility to read the current Student Handbook included in Greenville Technical College's Catalog. (See website.) The Student Handbook addresses specific academic and student conduct policies and procedures. Excerpts from the Student Handbook representing the policies and procedures most often referred to in working with students are provided for your convenience as "Attachment 3."

**Approved by:** \_\_\_\_\_

Phillip Cluley, Department Head for Computer Technology  
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**Approved by:** \_\_\_\_\_

Date: \_\_\_\_\_

Joel D. Welch, Ph.D., PE  
Dean, Technology Division

*This syllabus will remain in effect until revised or reviewed no later than August 2016.*

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**Course Title: Operating Systems**

**Course Number: CPT 257**

**Lecture hours per week: 3.0**

**Lab/Clinic Hours:**

**Semester credit hours: 3.0**

**Prerequisites:** Placement into MAT 101. Computer Technology students must obtain a minimum grade of "C" in all CPT and IST courses.

**Catalog Course Description:** This course examines the theory of operating systems and how the operating system theory is implemented in current operating systems.

**Purpose of the Course:** To demonstrate what operating systems are, what they do, how they do it, how their performance can be evaluated, and how they compare with each other. To describe the complexities of the operating system without going into intricate detail.

**Required text(s) and other materials:**

1. A+ Guide to Managing and Maintaining Your PC, Eighth Edition; Jean Andrews, Ph.D.; Course Technology/Cengage Learning; ISBN-13: 978-1-133-13508-1
2. NOTE: Students in traditional classes must access Blackboard for course-related information. Students in hybrid and online classes will access their online content through Blackboard.

**COLLEGE-WIDE STUDENT LEARNING OUTCOMES**

1. Communication – Students will demonstrate the ability to use active reading and listening skills and to produce effective written and oral communication for varying audiences.
2. Information Technology and Technological Literacy – Students will demonstrate competency in using computer technology within a field of study.
3. Critical Thinking/Reasoning – Students will demonstrate the ability to apply the scientific method, mathematical processes, and research skills to analyze and solve problems/issues by using reflection and reasoning to justify conclusions.
4. Professional and Personal Responsibility – Students will demonstrate the ability to exhibit conduct, attitudes, and etiquette appropriate to the student's community and chosen career. Students will demonstrate the ability to manage time, to use effective interpersonal skills, and to display responsible behavior.
5. Diversity – Students will demonstrate the ability to recognize diversity and to demonstrate respectful conduct and attitudes toward all. Students will demonstrate the ability to explain how global issues impact life, work, and opportunities.

*Revised December 31, 2012*

## COMPUTER TECHNOLOGY PROGRAM LEVEL STUDENT LEARNING OUTCOMES

Upon successful completion of the Computer Technology Degree students will be able to:

1. Install computer and network hardware.
2. Install computer operating systems and application software.
3. Design, create and test computer programming solutions.
4. Demonstrate the ability to take initiative, assume responsibility, and work under pressure with minimum supervision by successfully completing “hands-on” computer assignments.
5. Analyze, troubleshoot, and correct computer related technical problems.

*Revised August 2012*

## CPT 257 COURSE OUTCOMES

Students who successfully complete this course will have demonstrated the skills required to accomplish the following objectives with a minimum competence level of 70 percent.

1. Define terms associated with operating systems.
2. Explain operating system functions and features.
3. Install and maintain a desktop operating system.
4. Administer and troubleshoot a desktop operating system.
5. Describe basic skills expected of technical support professionals: customer service, troubleshooting strategies, roles and responsibilities.

*The outcomes of the CPT 257 course are intended to meet the Computer Technology program level student learning outcomes.*

*Revised January 2009*

## CPT 257 – MAIN TOPICS

- Introducing Windows Operating Systems
- Installing Windows
- Maintaining Windows
- Optimizing Windows
- Troubleshooting Windows and Applications
- Troubleshooting Windows Startup Problems
- Connecting to and Setting Up a Network
- Windows Resources on a Network
- Security Strategies
- Mobile Devices and Client-side Virtualization

***The instructor reserves the right to modify the Plan of Instruction by changing the sequence of text material or testing content.***

## CPT 257 – COURSE SPECIFIC REQUIREMENTS

**SPECIAL NOTE FOR ALL STUDENTS:** Online students will be REQUIRED to come to the Barton Campus to complete hands-on labs. The number of required on-campus meetings will vary from class to class. Students should plan on at least 3 to 4 meetings. Online students will be required to complete the labs to satisfactorily complete the course. Also, the final examination for online students will be administered on the Barton Campus. The final examination will be scheduled at a time determined by the administration.

## CPT 257 – EVALUATION AND GRADING INFORMATION

### GRADING POLICY

Assignments	20 percent	
Laboratories	20 percent	
Tests	40 percent	
Final Exam	<u>20 percent</u>	(50 percent written test and 50 percent hands-on lab portion)
Total	100 percent	

**Final letter grades** will be issued as follows:

A	=	90 - 100
B	=	80 - 89
C	=	70 - 79
D	=	60 - 69
F	=	0 - 59