

COURSE PREFIX/NO: CPT 257
COURSE TITLE: Operating Systems
LEC HRS/WEEK: 3.0
LAB HRS/WEEK: 0.0
CREDIT HRS/SEMESTER: 3.0

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

COURSE DESCRIPTION

This course examines the theory of operating systems and how the operating system theory is implemented in current operating systems.

This course will include overviews of single-user and multi-user operating systems and a discussion of the capabilities and limitations of each type.

COURSE COMPETENCIES

Upon successful completion of this course a student should be competent to perform the following tasks:

Module 1 – Operating System Theory and History

- Explain and explore the functions of an operating system.
- List characteristics of the different types of operating systems.
- Discuss the history of operating systems.

Module 2 – Contemporary Operating Systems

- Define computer hardware and discuss the interaction between the hardware and operating system.
- Describe the similarities and differences between current operating systems.
- Install and upgrade current operating systems.

Module 3 – Networks

- Differentiate between modems, bridges, routers and related hardware.
- List the types of network topography and the characteristics of each.
- Describe methods of sharing resources over a network.

Module 4 – Maintenance

- Explain procedures and utilities used for system maintenance.

MINIMUM STANDARDS

Students will be given minimum of one written test and one graded assignment for each module. There will be a minimum of three projects.

GRADING PROCEDURES

A minimum of four tests and three projects will be given. A minimum grade of C is required for students in computer technology programs.

	Module 1	Module 2	Module 3	Module 4
Tests (one or more)	80%	40%	80%	80%
Quizzes and assignments	20%	10%	20%	20%
Projects		50%		
Portion of final grade	20%	50%	15%	15%

The grading scale is as follows:

A = 90 - 100

B = 80 - 89

C = 70 - 79

D = 60 - 69

F = Below 60

COURSE REQUIREMENTS

All students are responsible for attaining competencies through completion of the following course requirements:

- attending class
- reading assigned material
- completing assigned exercises
- completing assigned projects
- completing all tests

ACADEMIC INTEGRITY

The policies stated in the York Technical College Handbook will be enforced. Any student violating the policies will be subject to academic discipline.

ATTENDANCE POLICY

The attendance policy as stated in the York Technical College Handbook will be enforced. Attendance is required on test days. You will receive a grade of zero for any test missed regardless of the reason. Make-up tests will not be given. You may replace one test score with an optional final exam.

ENTRY LEVEL SKILLS

A student entering this course should be familiar with basic computer terminology and have worked with a microcomputer operating system.

PREREQUISITES – CPT 114

CO-REQUISITES – None