

COURSE INFORMATION

Course Prefix/No: **CPT 264**
Course Title: **Systems and Procedures**
Lec Hrs/Week: 3.0
Lab Hrs/Week: 0.0
Credit Hrs/Semester: 3.0

[DL Attendance/VA Statement](#)
[Textbook Information](#)

COURSE DESCRIPTION

This course covers the techniques of system analysis, design, development, and implementation.

COURSE COMPETENCIES

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

Module 1 – Basics of the SDLC

- Describe the role of systems development methodologies.
- Explain each phase of the systems development life cycle (SDLC).
- Explain the reasons and methods for systems planning.
- Describe the participants and their respective roles.
- Relate this process phase to the rest of the systems development life cycle.
- Discuss the methods for gathering information and preparing the systems analysis report.

Module 2 – SDLC in Action

- Identify the key features of the structure-oriented design approach.
- Describe the modeling tools which contribute to the structured design approach.
- State the purpose of a data flow diagram, data dictionary, and entity relationship diagram.
- Develop each of these modeling tools:
 - Data flow diagram
 - Data dictionary
 - Entity relationship diagram
- Integrate the knowledge of the SDLC, modeling tools, information gathering techniques by developing useful system to accommodate a business need.

COURSE REQUIREMENTS

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

- attending class
- reading assigned material
- completing assigned exercises and tests
- completing assigned project

ATTENDANCE POLICY

The attendance policy as stated in the York Technical College Handbook will be enforced. Attendance is required on test days. Make-up tests will not be given. Instead an optional final exam will be given on the last day of class. Students may take the final exam to replace their lowest test grade.

ACADEMIC INTEGRITY

The policies stated in the York Technical College Handbook will be enforced. Any student violating the policy will be subject to academic discipline. Anyone caught cheating will automatically get a 0 grade for the assignment.

EVALUATION STRATEGIES/GRADING PROCEDURE

The grading scheme for the course is shown in modules below. The project will be a comprehensive team project. The project will be assigned approximately midway through the course. A minimum grade of C in the course is required for students in computer technology programs.

Module 1 Assessment		% Module Grade	Course Grade
Theory Test(s)	100	70%	
Learning Activities	<u>100</u>	<u>30%</u>	
Module Grade		100%	50.0%
Module 2 Assessment		% Module Grade	Course Grade
Theory Test(s)	100	25%	
Learning Activities	100	25%	
Project	<u>100</u>	<u>50%</u>	
Module Grade		100%	50.0%
Final Grade			100%

GRADING SCALE

A = 90 - 100

B = 80 - 89

C = 70 - 79

D = 60 - 69

F = Below 60

ENTRY-LEVEL SKILLS

A student entering this course should be familiar with structured programming concepts and database concepts.

PREREQUISITES

CPT 212, CPT 236, or CPT 237 with a minimum grade of "C."