
COURSE PREFIX/NO:	AOT 162
COURSE TITLE:	BASIC INFORMATION PROCESSING
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 is an entry-level course to introduce the user to basic computer information processing software applications.

COURSE COMPETENCIES

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

Module 1: Basic Computer Terminology

- Describe the purpose of input, output, storage, and processing devices.
- Identify multiple input and output devices.
- Identify storage devices and relate the differences in storage capacities and access times. Relate the difference between primary and secondary storage.
- Describe the difference between applications and systems software.
- Describe the difference between command-line and graphical operating system interfaces.

Module 2: Introduction to the Macintosh OS

- Create a chronology on the evolution of the Mac operating system.
- Format a secondary storage device.
- Display the contents of a specified folder.
- Create, name, move, copy, and delete folders.
- Create, name, move, copy, and delete documents.
- Open, edit, print, and save documents.
- Start, restart, and shutdown a workstation.

Module 3: Introduction to the PROCESSING environment

- Outline the history and recognize the contributions of seminal products and individuals that illustrate the evolution of information and interactive graphics.
- Describe the difference between sketching and prototyping and how to use both conditions for designing graphics.
- Create a Processing document.
- Open an existing Processing document.
- Edit and save Processing documents.
- Play a Processing document.

Module 4: Working with Coordinate Systems and Shapes

- Draw basic shapes with the Processing environment.
- Describe and adjust shape Properties
- Create custom shapes.
- Create color within the Processing environment.

Module 5: Interactive Coding for Processing

- Describe variables and their relationship to memory storage.
- Create variables within the Processing environment.
- Create loops with embedded variables.
- Create graphics based on variables.
- Create mouse tracking code and graphics.
- Create code and graphics based on mapping values.
- Create code and graphics that respond to mouse clicks.
- Create code and graphics that respond to mouse location values.
- Create code and graphics that respond to input from the keyboard.

COURSE REQUIREMENTS

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

- A. Attend class on time
- B. Bring required storage media and text to class
- C. Submit completed projects
- D. Complete all tests
- E. Complete assigned exercises in class or outside of class
- F. Complete lab assignments and digital portfolio (PowerPoint)
- G. Read assigned material in text and on the internet

ATTENDANCE POLICY

The attendance policy as stated in the *York Technical College Catalog and Handbook* will be enforced. Attendance is required on test days unless the student has a doctor's excuse, death notice, etc., indicating an unusual circumstance for absence. If a student knows that he/she must be absent on a test day, the student should make arrangements with the instructor to take the test before the absence.

ACADEMIC INTEGRITY

The policies stated in the *York Technical College Catalog and 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

A minimum grade of C is required for the Digital Design Certificate.

Module 1

Test(s)	5%
Project(s)	9%

Module 2

Test(s)	5%
Project(s)	9%

Module 3
Test(s) 5%
Project(s) 9%

Module 4
Test(s) 5%
Project(s) 9%

Module 5
Test(s) 5%
Project(s) 9%

Final Project
Project(s) 25%
Presentation 5%

GRADING SCALE

A = 90-100

B = 80-89

C = 70-79

D = 60-69

F = 0-59

PREREQUISITES: None

CO-REQUISITES: None

Disabilities Statement: Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Offices (SR) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities