

COMPUTER INFORMATION SYSTEMS 1400

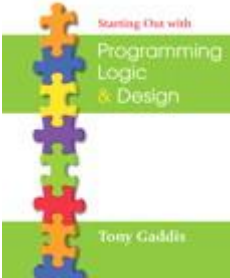
Programming Logic and Technique

This is an information sheet only, not the course syllabus.

COURSE DESCRIPTION

Programming Logic and Technique is an introduction to computer-based problem-solving. Includes design tools such as structure charts, Input Processing Output charts (IPO), flowcharts, pseudocode and Object-Oriented Programming (OOP). Concepts such as documentation, structured design and modularity are emphasized. Actual programming experiences are assigned in a procedural level emphasizing structured design techniques. Prerequisite: Mathematics 0482 or 1115 with a grade of “C” or better, or equivalent or consent of instructor. (4 credit hours)

COURSE MATERIALS



Starting Out with Programming Logic & Design by Tony Gaddis,
Publisher: Addison Wesley, 2008.
ISBN: 0-321-47127-X

COURSE OUTLINE

This course is divided into one online course introductory unit and eleven programming logic conceptual units as listed below. Each unit can consist of reading, online, hands on practice exercises, a submitted assignment, and a test. Refer to the syllabus for assignment and test due dates.

Units	Activity
0	Introduction
1	Computers and Programming
2	Simple Data Types and the Sequential Control Structure
3	Selection Control Structures
4	Repetition Logic Structures
5	Understanding Modules
6	Understanding Functions
7	Advanced Data Types
8	Data Files
9	Algorithms
10	Object Oriented Programming
11	GUI and Event Driven Programming

In addition, a group project that applies the concepts covered in this course to a team design environment must be completed for full course credit.

EVALUATION/GRADING

Points will be distributed in the following manner:

Assignments	255
Tests	265
Project	80
Total	600

Final Grades will be assigned using the following scale:

Accumulated Points	Grade	Percentage
540 – 600	A	≥ 90
480 – 539.9	B	80 – 89
420 – 479.9	C	70 – 79
360 – 419.9	D	60 – 69
359.9 or lower	F	< 60

SATISFACTORY/FAIL OPTION

The S/F grade option is available to students in this course. Contact the instructor or refer to the syllabus for details and conditions.

INCOMPLETE GRADE POLICY

If you may find that you are unable to complete the course by the end of the semester for some unavoidable reason you may request an Incomplete grade. Contact the instructor or refer to the course syllabus for details.