COSC 1315 Online – Introduction to Computer Programming
El Centro College

Course Information
Course Title: Introduction to Programming
Course & Section Number: COSC 1315
Semester/Year: 
Credit Hours: 3.0
Class Meeting Time/Location: Online
Coordinating Board Academic Approval Number 1102015207

Course Prerequisites
This is an introductory course. No prior computer programming experience is required.

Course Description
Introduction to computer programming for solving a variety of problems. This course is intended for non-computer science and non-computer engineering majors. Emphasis on the fundamentals of design, development, testing, implementation, and documentation of computer programs. Includes problem solving with structured techniques and algorithms using pseudo code and/or graphical representations.

Student Learning Outcomes
Upon successful completion of this course, students will:
1. Design and develop algorithms to solve problems.
2. Demonstrate a fundamental understanding of software development methodologies, such as modular design, pseudo code, flowcharting, and structure charts.
3. Demonstrate appropriate design, coding, testing, debugging, and documenting of computer programs that implement problem specifications and requirements.
4. Apply computer programming concepts to new problems or situations.

COURSE MATERIALS

Required Textbook:
Starting Out with Programming Logic and Design 4th Edition
Author: Tony Gaddis

Students are encouraged to store assignments on a USB Flash Drive

A student of this institution (El Centro College) is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.
Subject Matter
Topics covered in the course include:

Introduction and getting started Setting properties Using controls
Business organizations and career options
Problem solving and decision making
Identifying and Defining Problems
Solving the Problem Thinking Critically
Group Decision Making and Problem Solving Learning the Language
Performing operations Making statements Directing values Manipulating data Creating classes Integrating functions Building interfaces Recognizing events Deploying programs
Program logic
Studio development (ELMS)
Database development

Disclaimer
The provisions contained in this syllabus do not constitute a contract between the student and El Centro College. These provisions may be changed at the discretion of the Coordinator/Instructor. When necessary, appropriate notice of such changes will be given to the student.

The instructor-of-record may provide additional information to enhance the course to meet the needs of the enrolled students, provided that the enhancements do not conflict with the official course syllabus.

POLICIES
Students should click on the links below and read all of these policies.

Institutional Policies