

# El Paso Community College

## Syllabus

### Part II

## Official Course Description

<b>SUBJECT AREA</b>	<u>Information Technology Systems</u>
<b>COURSE RUBRIC AND NUMBER</b>	<u>ITSE 1307</u>
<b>COURSE TITLE</b>	<u>Introduction to C++ Programming</u>
<b>COURSE CREDIT HOURS</b>	<u>3            3    :    1</u> Credits    Lec        Lab

### I. Catalog Description

Introduces computer programming using C++. Emphasizes the fundamentals of object oriented design with development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. **Prerequisite: ITSE1329. (3:1).**

### II. Course Objectives

Upon satisfactory completion of this course, the student will be able to:

- A. Use an Integrated Development Environment as a C++ language program development platform.
- B. Develop elementary programs using predefined variable types, elementary input and output functions, and mathematical operations and to properly comment the code.
- C. Use the decision constructs of C++ (if, if...else, else if, and switch) in the development of elementary programs.
- D. Use looping in C++, with reserved words for, while, and do...while, in the development of elementary programs.
- E. Develop modular programs with the use of functions, function prototyping, the standard libraries, and preprocessor directives.
- F. Demonstrate the use of arrays and strings
- G. Use pointers.
- H. Use Structures in programs and use typedef to clarify program development.
- I. Write programs to perform both random and sequential file access, using either text (ASCII) or binary files as appropriate.

### III. THECB Learning Outcomes (WECM)

1. Use object-oriented programming (OOP) techniques.
2. Develop executable programs.
3. Create appropriate documentation.
4. Incorporate pointers and/or arrays to manipulate data.
5. Create programs using classes and objects.

**IV. Evaluation****A. Remediation**

The instructor may provide the students with means of improving a grade. The instructor will determine the timing, form, and method of remediation.

**B. Final Grade**

The final grade report will be based on the percentage of the total points earned.

Points Earned-	Percentage-Final	Letter Grade
630 +		90% + A
560-629		80% to 89% B
490-559		70% to 79% C
420-489		60% to 69% D
0-419		0% to 59% F

**V. Disability Statement (American with/Disabilities Act [ADA])**

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

**VI. 6 Drop Rule**

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.