# El Paso Community College
# Syllabus
# Part II
# Official Course Description

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| **SUBJECT AREA** | **Information Technology Systems** |
| **COURSE RUBRIC AND NUMBER** | **ITSE 1307** |
| **COURSE TITLE** | **Introduction to C++ Programming** |
| **COURSE CREDIT HOURS** | **3** **3** : **1** |
| | **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: ITSE 1329. (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.

J.

## 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 (Americans 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.