

El Paso Community College

Syllabus

Part II

Official Course Description

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

I. Catalog Description

Introduction to computer programming using C++. Emphasis on 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.

III. THECB Learning Outcomes (WECM)

1. Use object-oriented programming 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.

VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.