

El Paso Community College

Syllabus

Part II

Official Course Description

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| SUBJECT AREA | <u>Information Technology Systems</u> |
| COURSE RUBRIC AND NUMBER | <u>ITSE 2317</u> |
| COURSE TITLE | <u>JAVA Programming</u> |
| COURSE CREDIT HOURS | <u>3 3 : 1</u> Credits Lec Lab |

I. Catalog Description

Provides an introduction to object-oriented Java programming including the fundamental syntax and semantics of Java for applications and web applets. **Prerequisite: ITSE1329. (3:1).**

II. Course Objectives

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

- A. Explain the concepts of platform independent programming and the Java Virtual Machine.
- B. Differentiate between various Java data types
- C. Design Java programs using object oriented programming techniques.
- D. Create Java classes and objects.
- E. Use the Java class library.
- F. Program in Java using loops and decisions.
- G. Use arrays in Java.
- H. Write programs that use simple graphic design elements.
- I. Manipulate graphic elements using the graphics coordinate system.
- J. Apply event-driven programming techniques.
- K. Write to an Application Programming Interface (API).
- L. Develop user interfaces using the Abstract Windowing Toolkit (AWT).
- M. Create data structures.
- N. Demonstrate the use of stream I/O.

III. THECB Learning Outcomes (WECM)

Design and write documented Java applications and applets.

IV. EvaluationGrading Scale

Final grades will be based on points earned by completing 7 projects, 1 comprehensive design project, 4 written examinations, and 4 performance examinations.

Points to be earned are:

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|---|-----|
| 7 projects @ 50 points each | 350 |
| 1 comprehensive design project | 100 |
| 8 in-term tests (4 written, 4 performance) @ 50 points each | 400 |
| | --- |
| Total Points | 850 |

Letter grades will be assigned as follows:

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|---------------------------|---|
| 90 - 100% of total points | A |
| 80 - 89 | B |
| 70 - 79 | C |
| 60 - 69 | D |
| below 60 | 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.