



Computer Science Department

**Course Syllabus**

**CS344 - Concepts of Programming Languages**

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**Catalog Description:** This course will introduce the student to a history of programming languages; virtual machines; sequence control; data control; scoping; parameter passing; sharing and type checking; run-time storage management; programming language semantics; programming paradigms. It also includes a brief introduction to several different languages as examples of paradigms.

**Credit Hours:**            **3 Credit hours:**    3 Lectures per week    0 Labs. per week    0 Recitation per week

**Prerequisites:**            CS242 - Data Structures

**Course Learning Outcomes:**    Summary of the main learning outcomes for students enrolled in the course.  
Upon successful completion of the course, the student should be able to:  
(a) Explain what the fundamental properties of programming languages are and discuss how the properties are implemented in particular languages.  
(b) Learn and use new languages on their own.

**Major Topics:**

- Introduction
- Describing Syntax and Semantics
- Lexical and Syntax Analysis
- Name, Bindings, Type Checking, and Scopes
- Data Types
- Expressions and Assignment Statements
- Subprograms
- Implementing Subprograms

**Text Books:**            Concepts of Programming Languages, Sebesta, 8th edition, Prentice Hall, 2007.



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**Grading:**

- ⦿ The grading scale for this course is:
  - . 95 - 100 A+ Passing
  - . 90 - 94 A Passing
  - . 85 - 89 B+ Passing
  - . 80 - 84 B Passing
  - . 75 - 79 C+ Passing
  - . 70 - 74 C Passing
  - . 65 - 69 D+ Passing
  - . 60 - 64 D Passing
  - . 0 - 59 F Failing
  
- ⦿ Final grades will be determined based on the following components:
  - . 60% Semester Work
  - . 40% Final Exam
  
- ⦿ Students may not do any additional work for extra credit nor resubmit any graded activity to raise a final grade.
  
- ⦿ Late submissions will not be accepted for any graded activity for any reason.
  
- ⦿ Students have one week to request the re-grading of any semester work.

**Attendance Policy:**

Students should attend 80% of the overall course hours taught in the semester as per the University regulations.

If a student fails to achieve this portion, he/she shall not be allowed to appear in the final exam and shall be awarded “DN” grade and repeat the course.

**Cheating and Plagiarism Policy:**

The instructor will use several manual and automated means to detect cheating and/or plagiarism in any work submitted by students for this course.

When a student is suspected of cheating or plagiarism, the instructor raises the issue to the disciplinary committee.



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**Communications:** Registered students will be given access to a section of the Blackboard Learning System for this course. Bb will be used as the primary mechanism to disseminate course information, including announcements, lecture slides, assignments, and grades.

Communication with the instructor on issues relating to the individual student should be conducted using CIS email, via telephone, or in person.