SU DEPARTMENT OF COMPUTER SCIENCE SYLLABUS

COSC 442 Organization of Programming Languages

Description: Organization of Programming Languages is a course on the fundamental principles of programming languages, introduction to fundamental principles and techniques in programming languages design and implementation. (Three hours lectures per week.)

References: Concepts of Programming Languages, by Robert W. Sebesta (12th Edition), 2019 Pearson; Programming Language Concepts & Construction, by Ravi Sethi (2nd Edition), 1986 Addison Wesley Press

Topics:

- Preliminaries of concept of programming languages
- History of the major programming Languages
- Describing Syntax and Semantics
- Lexical and Syntax Analysis
- Names, Bindings and Scope rules
- Data Types
- Expressions and Assignment Statements
- Control Structures
- Subprogram & implementing Subprogram
- Abstract Data Types and Encapsulation Construct.
- Support for Object-Oriented Programming
- Functional Programming Language Common Lisp
- Logical Programming Languages

Grade: Test 1- 20 %, Test 2-20 %, Final -30 %, Mini Test -30 %. Your final grade will be based on the standard formula:

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o A: 90 ≤ Total_Average_score
o B: 80 ≤ Total_Average_score <90
o C: 70 ≤ Total_Average_score <80
o D: 60 ≤ Total_Average_score <70
o F: Total_Average_score <60
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Exam Policy: There will be an announcement one week before each exam. And also, it will be posted on my web page. There will be no make-ups or rescheduling of exams for individual cases (except emergency cases with evidence).

Attendance: Each student is expected to be present each lecture and lab. Attendance will be checked for each class. If a student misses lectures more than 5 times without any reason with evidence, he/she will lose 3% from the total average score. If a class must be missed, however, students are responsible for all material, assignments, and announcements made during class.

Laptop & Smart Phone Policy: Students cannot use his/her own laptop durin a lecture without special permission.

SEP/jlh SP/2019