



Computer Science Department

Course Syllabus
CS445 - Compilers

Catalog Description:	This course aims to cover the main technologies associated with implementing programming languages, viz. lexical analysis, syntax analysis, type checking, run-time data organisation and code-generation.
Credit Hours:	4 Credit hours: 4 Lectures per week 0 Labs. per week 0 Recitation per week
Prerequisites:	CS344 - Concepts of Programming Languages
Course Learning Outcomes:	<ol style="list-style-type: none">1 Use Finite Automata theory to build lexical analysers and use them in the construction of parsers;2 Express the grammar of a programming language;3 Build syntax analysers and use them in the construction of parsers;4 Perform the operations of semantic analysis.
Major Topics:	<ul style="list-style-type: none">- Introduction to Compilers- Lexical Analyzers- Lexical Analyzers Generators: LEX- Syntax Analyzers:- Syntax Analyzers Generators: BISON- Semantic Analyzer
Text Books:	Su, Yunlin, Yan, Song Y. (2011). A New Approach to Compilers Including the Algebraic Method, Springer



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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.