

COMP 301 (01) PROGRAMMING LANGUAGE CONCEPTS

Fall 2023

1. Course Information

Instructor:	Tevfik Metin Sezgin, mtsezgin@ku.edu.tr
KU Credits:	3.00
ECTS Credits:	6.00
Prerequisite(s):	Prerequisite: COMP. 200 or COMP 201 and COMP 202
Class Location & Meeting Times:	SNA A43 - Monday, Wednesday 11:30-12:40
PS (Yes/No):	No
DS (Yes/No):	No
Lab (Yes/No):	Yes
Language of Instruction:	English
Office Hours:	Wed 15:00-16:00 or by appointment

2. Course Description

Programming languages concepts and paradigms. Functional programming. Abstraction, encapsulation, type systems, binding, parameter passing, run-time storage, memory, stack, heap, interpreters. Implementation strategies for interpreters. Data representation, sets, syntax, semantics, behavior specification and implementation.

3. Course Overview

Programming languages (i.e. C++, Java, Ada, Lisp, ML, Prolog), concepts and paradigms. Syntax, semantics. Abstraction, encapsulation, type systems, binding, run-time storage, sequencers, concurrency, control. Providing examples from functional, object-oriented and logic programming paradigms.

4. Course Learning Outcomes (CLOs):

CLO #	Upon successful completion of this course, students will be able to...
1	Gain fluency in core programming concepts including data representation, procedural representation.
2	Understand grammars, environment models, parsing, evaluation, parameter passing.

5. Assessment Methods

Method	Description	Weight %
Quiz	10 quizzes	10.00
Project	Project	20.00
Midterm Exam	Midterm	25.00
Final Exam	Final	30.00
Participation	Participation	5.00
Laboratory	PS Sessions	10.00
Total:		100.00

6. Instructional Material and Learning Resources

- Essentials of Programming Languages Third Edition
Author: Friedman & Wand
Material Type: Textbook
Material Status: Recommended
- Structure and Interpretation of Computer Programs
Author: Abelson , Sussman & Sussman
Material Type: Textbook
Material Status: Recommended
- Active Use of Course Page on Blackboard: <https://ku.blackboard.com/>
- KOLT Tutoring: <http://kolt.ku.edu.tr/>

7. Course Schedule

Meeting Times	Subject
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8. Student Code of Conduct and Academic Grievance Procedure

[Student Code of Conduct](#)

[Statement on Academic Honesty with Emphasis on Plagiarism](#)

[Academic Grievance Procedure](#)

9. Course Policies

The course will use catalog grading scale. All percentages are subject to change within a margin of 5% during the semester. In addition, up to 5% additional bonus points may be added. Total number of quizzes, hence points per quiz will depend on the progress of the class as a whole, although you should expect about 10 quizzes.

10. Other

All KU academic policies including those on plagiarism, cheating, and online recording apply.