

Fall 2024

CS 635-101: Computer Programming Languages

Adrian Ionescu

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Recommended Citation

Ionescu, Adrian, "CS 635-101: Computer Programming Languages" (2024). *Computer Science Syllabi*. 524.

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CS 635 COURSE SYLLABUS – FALL 2024

NJIT ACADEMIC INTEGRITY CODE: All Students should be aware that the Department of Computer Science takes the University Code on Academic Integrity at NJIT very seriously and enforces it strictly. This means that there must not be any forms of plagiarism, i.e., copying of homework, class projects, or lab assignments, or any form of cheating in quizzes and exams. Under the University Code on Academic Integrity, students are obligated to report any such activities to the instructor.

CS 635: Computer Programming Languages

Number of Credits: 3

Course Description: The theory and design of computer language systems; the formal theory of syntax and language classification; a survey of procedure and problem-oriented computer programming languages, their syntax rules, data structures, and operations; control structures and the appropriate environments and methods of their use; a survey of translator types. *Prerequisites:* No formal prerequisites – The course assumes knowledge of a high-level programming language and topics of [CS 505](#) or equivalent courses.

Course Objectives (what you are expected to know to complete this course)

1. Survey of Computer Programming Languages
 2. Formal Theory of Lexical and Syntactical Analysis.
 3. Data Structures and Operations.
 4. Control Structures and Environments.
- **Textbook:** Textbook: Sebesta, *Concepts of Programming Languages*, 12th Edition. Pearson, 2019. ISBN: 10: 0-13-499718-2, 13: 978-0-13-499718-6 and Michael Scott, *Programming Language Pragmatics*, 4th edition. Morgan Kaufmann, 2015, ISBN-10: 0124104096, ISBN-13: 978-0124104099

Instructor:

CS 635-101

Adrian Ionescu,
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Grading Policy: The final grade in this course will be determined as follows:

▪ Quizzes (25%) + Homework/ Projects (10%)	35%
▪ Midterm Exam:	30%
▪ Final Exam:	35%

University-wide Withdrawal Date: Please note that the University Withdrawal Date [Monday, November 11, 2024](#) deadline will be strictly enforced.

Homework Policy: Homework problems will be assigned in class. Please try to do as many as possible, and as time permits for everyone.

Attendance: Attendance at all classes will be recorded and is **mandatory**. Please make sure you read and fully understand the Department's Attendance Policy. This policy will be **strictly** enforced. Absences from class will inhibit your ability to fully participate in class discussions and problem-solving sessions and, therefore, affect your grade. Tardiness to class is very disruptive to the instructor and students and will not be tolerated. Each student should have contact information of several fellow students to get homework assignments and class notes when absent. You are responsible for everything that happens in class whether you are present or not. All cellular phones must be switched off during class.

Makeup Exam Policy: There will be **NO MAKE-UP EXAMS OR QUIZZES** during the semester. In the event the Final Exam is not taken, under rare circumstances where the student has a legitimate reason for missing the final exam, a makeup exam will be administered by the Instructor / CS department. In any case the student must notify the **Dean of Students and the Instructor** that the exam will be missed and present written verifiable proof of the reason for missing the exam, e.g., a doctor's note, police report, court notice, etc., clearly stating the date AND time of the mitigating problem.

Accommodation of Disabilities: Disability Support Services (DSS) offers long term and temporary accommodations for undergraduate, graduate and visiting students at NJIT. If you need accommodations due to a disability, please contact Scott Janz, Associate Director, Office of Accessibility Resources and Services at 973-596-5417 or via email at scott.p.janz@njit.edu. The office is in Fenster Hall Room 260. For further information regarding self-identification, the submission of medical documentation and additional support services provided please visit the Disability Support Services (DSS) website at: <https://www.njit.edu/studentsuccess/accessibility>

Important Dates (See: [Fall 2024 Academic Calendar, Registrar](#))

Date	Day	Event
September 2, 2024	Monday	Labor Day
September 3, 2024	Tuesday	First Day of Classes
September 9, 2024	Monday	Last Day to Add/Drop Classes

November 11, 2024	Monday	Last Day to Withdraw
November 26, 2024	Tuesday	Thursday Classes Meet
November 27, 2024	Wednesday	Friday Classes Meet
November 28 to December 1, 2024	Thursday and Sunday	Thanksgiving Recess - Closed
December 11, 2024	Wednesday	Last Day of Classes
December 12, 2024	Thursday	Reading Day 1
December 13, 2024	Friday	Reading Day 2
December 15 to December 21, 2024	Sunday to Saturday	Final Exam Period

Prepared By: Prof. Adrian Ionescu

Revised: August 30, 2024