

Summer 2020

CS 115-450: Introduction to Computer Science I in C++

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Recommended Citation

Spirollari, Junilda, "CS 115-450: Introduction to Computer Science I in C++" (2020). *Computer Science Syllabi*. 105.

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CS 115 - Introduction to Computer Science I in C++ Course Syllabus

Overview

Fundamentals of computer science are introduced, with emphasis on programming methodology and problem solving. Topics include basic concepts of computer systems, software engineering, algorithm design, programming languages and data abstraction, with applications. The high level language C++ is fully discussed and serves as the vehicle to illustrate many of the concepts.

Textbook

Programming in C++ with zyLabs – <http://learn.zybooks.com>
Problem solving with C++, 10th edition, ISBN: 978-0-13-444828-2
Walter Savitch, University of California, San Diego.

Course Policies

Attendance is mandatory.

Canvas (<http://canvas.njit.edu/>) will be used for course discussion.

Homework/Classwork must be submitted via Canvas on the due date. All submitted work (including exams) must include your name and student ID.

Plagiarism will result in zero credit for the assignment and/or an XF grade in the course.

Cell phones must be turned off during class.

Students will be informed of any modifications of the syllabus during the semester.

Material covered

- Introduction to C++
- Flow of Control
- Function Basics
- Parameters and Overloading
- Arrays
- Structures and Classes
- Constructors
- Operator Overloading and Friend Functions
- Recursion
- Inheritance and Polymorphism
- Exception Handling

Evaluation

The evaluation will be based on the following course requirements:

- Homework/Lab 30%
- Midterm Exam 30%
- Final Exam 35%
- Attendance 5%

Exam Policies

You must bring a photo ID to all exams. Students with special needs are advised to make arrangements with Disability Services.

There are no makeup exams. If you miss a midterm because of a documented special circumstance you may receive an imputed grade based on the other midterm.

If you believe that you deserve more credit than you have been awarded on a particular exam problem, you may request, within 48 hours of the exam being returned, that it be regraded. Your entire exam will be regraded, which may result in points being added or subtracted.

Exams do not require any portable electronic devices, such as cell phones or calculators, and all such devices must be put away and turned off during the exam.

University Code on Academic Integrity

Every student should read the University Code on Academic Integrity (<http://www.njit.edu/academics/integrity.php>). All work that you represent as your own must, in fact, be your own. Work done by others must be given proper credit.