Object Oriented Programming - 2020 Spring → ☐ Syllabus

Syllabus



CS2124 Object Oriented Programming Syllabus

Course Description

This intermediate-level programming course teaches object-oriented programming in C++. Topics: Pointers, dynamic memory allocation and recursion. Classes and objects including constructors, destructors, methods (member functions) and data members. Access and the interface to relationships of classes including composition, association and inheritance. Polymorphism through function overloading operators. Inheritance and templates. Use of the standard template library containers and algorithms. | Prerequisite: CS-UY 1134 (C- or better)

A tentative lecture-by-lecture schedule is attached (see the bottom of the page).

Course Lecture Notes

Topics

- Basics of C++: static typing, conditions, loops, functions, structs and vectors.
- Basic OOP: data hiding, encapsulation, and delegation
- Pointers: addresses, pointer types, pointers and const, dynamic memory
- Copy control and move semantics
- Implementing the vector type
- Cyclic Association
- Separate compilation
- Class templates
- Operator overloading
- Iterators
- Inheritance

- Implementing linked lists
- Recursion
- Generic Programming: class and function templates
- STL: collections, containers, algorithms, functors, lambda expressions
- · Exceptions and assertions

Textbook

There is no textbook for the course. See the lecture notes on the course website: cis.poly.edu/jsterling/cs2124

Grading

Exams:

• Final: 40%

• Midterms: 20% each

Homework: 10%

Labs: 10%

Schedule.pdf

Timezone: America/New_York

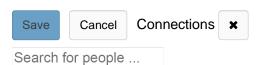
- Terms of Use
- Send feedback to the NYU Classes Team
- Powered by Sakai
- Copyright 2003-2020 The Apereo Foundation. All rights reserved. Portions of Sakai are copyrighted by other parties as described in the Acknowledgments screen.

Change Profile Picture

Error removing image

Error uploading image

Upload Browse... No file selected.



Remove

View More

My Connections Pending Connections

You don't have any connnections yet. Search for people above to get started.

You have no pending connections.

← Back to My Connections

Search for people ...

\$({cmLoader.getString("connection_manager_no_results")}

Done