

Syllabus

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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%

 [CS2124 20S Schedule.pdf](#)

Timezone: America/New_York

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