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C++ Syllabus

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C++ Overview

- ✓ C++ Characteristics
- Object-Oriented Terminology
- ✓ Polymorphism
- ✓ Object-Oriented Paradigm
- ✓ Abstract Data Types
- ✓ I/O Services
- ✓ Standard Template Library
- Standards Compliance

Functions and Variables

- ✓ Functions: Declaration and Definition
- ✓ Variables: Definition, Declaration, and Scope
- ✓ Variables: Dynamic Creation and Derived Data
- ✓ Arrays and Strings in C++
- ✓ Qualifiers

Classes in C++

- ✓ Defining Classes in C++
- Classes and Encapsulation
- ✓ Member Functions
- ✓ Instantiating and Using Classes
- Using Constructors
- Multiple Constructors and Initialization Lists
- Using Destructors to Destroy Instances
- 🗸 Friendship

Operator Overloading

Operator Overloading
Working with Overloaded Operator Methods

Initialization and Assignment

- Initialization vs. Assignment
- ✓ The Copy Constructor
- ✓ Assigning Values
- Specialized Constructors and Methods
- Constant and Static Class Members

Storage Management

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Memory Allocation
Dynamic Allocation: new and delete

Inheritance

Overview of Inheritance
Defining Base and Derived Classes
Constructor and Destructor Calls

Polymorphism

✓ Overview of Polymorphism

Input and Output in C++ Programs

Standard Streams
Manipulators
Unformatted Input and Output
File Input and Output

Exceptions

- Exceptions
- Inheritance and Exceptions
- Exception Hierarchies
- Inside an Exception Handler

Templates

- ✓ Template Overview
- ✓ Customizing a Templated Method
- ✓ Standard Template Library Containers

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