

# **CSE 4252 Programming in C++**

**Instructor:** Di Cao

**Class Time:** Mon :11:30am-12:25pm (Bolz 311)

**Office Hours:** Tu 2:30pm-4:00am at DL680 (tentative), or by appointment

**E-mail:** cao.96@buckeyemail.osu.edu

**Course Webpage:** <http://www.cse.ohio-state.edu/~caod/cse4252/index.html>

## **Course Description:**

Study of object-oriented programming using C++. Syntax and pragmatics of C++ programming; C++ types, arrays, classes, pointers; objects and classes, object instantiation, polymorphism, member functions, templates and virtual functions; constructors/destructors; compile-time vs. run-time picture; inheritance, etc.

**Prerequisites:** CSE 2231; Not open to students with credit for 459.22.

## **Objectives:**

At the completion of the course, you should understand the concepts and be able to write basic C++ programs that make use of the following:

pointers and references

dynamic memory allocation

classes & objects

constructors and destructors

static data members and static member functions

function overloading and operator overloading

templates and C++ standard template library (STL)

inheritance

polymorphism

virtual functions

**Textbook:** The C++ Programming Language(Third Edition), by Bjarne Stroustrup

## Grading Policy:

**No midterms and final.** There will be **five** labs, each worth **100** points.

Labs are due on the date and time specified in each assignment. **20 points will be deducted for each day of late submissions.** Unless otherwise announced, the last lab cannot be handed in late. Partial credit will be given based on your work. In order to get the partial credit, you must show all your intermediate work, comment and clearly label your answer. However, if your program has syntax errors and/or does not compile at all, you will receive zero points.

This course is graded as **S/U** (Satisfactory/Unsatisfactory). **In order to get a satisfactory grade in this course, you must earn at least 50 out of 100 points for each individual lab, and 350 out of 500 pts for the course.**

## Lab Submission:

You should submit all your work electronically using the submit command. It is also recommended that you submit a README file to describe how to use your program. The format of submit command is as follows:

`submit classname labname files-to-submit`

It is explained in the following table:

For example, you are submitting lab1 with two files included, which are lab1.cpp and README.

Then the command	<i>classname</i>	<b>c4252aa</b>	should be:
<code>submit c4252aa lab1</code>	<i>labname</i>	the lab you are working on (lab1, lab2, etc.)	<b>lab1.cpp README</b>

### Notes:

All of the files in a lab **MUST** be submitted using one command. If you use two submit commands, the second one erases the files from the first submission.

Each submit command **MUST** be entered on one line with pressing Enter at the end. If the line you are entering is too long, it wraps onto the next line.

Your programs **MUST** be submitted in source code form. Make sure that you submit the \*.cpp and \*.h files. Do **NOT** submit the object files (\*.o) and/or the executable.

It is **YOUR** responsibility to make sure your code can compile and run on CSE department server : `stdlinux.cse.ohio-state.edu`.

**Academic Misconduct:** You can discuss the requirements of the lab assignments with other students, but the design and coding of the labs must be your own work.