

# CS 211: Computer Science 2

## Instructor Information

Name: S. Seth Long, Ph.D

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Office Hours: Monday 2:00-3:00, Wednesday 11:00-12:00

Course Website: <http://isoptera.lcsc.edu/~seth/cs211>

## Course Goals

Computer Science 2 covers programming in C++, including basics of the language and an introduction to objects. It leaves off just before data structures, which are covered in CS311, having covered arrays and pointers.

At the end of the class, students will understand:

- C++ basics (data types, control structures, etc)
- Functions
- Objects, so far as creating an object with properties and methods
- Pointers
- How to debug C++ programs, including finding memory errors

## Textbook

Starting Out with C++: Early Objects, *Gaddis, Walters, Muganda*, 9th edition. ISBN 0-13-440024-0.

## Grading

Your grade will be calculated based on the following items:

Item	Percentage of grade
Midterm	20%
Final	20%
4 Projects	40% total (10% each)
Lab Assignments	20% total

Assignments will typically be made available at least one week before they are due.

Grades will be assigned according to a standard curve, that is:

A: 90% +

B: 80%- 90%

C: 70%- 80%

D: 60%- 70%

F: less than 60%

Use of + or - grades (such as B+ or A-) and curves will be at the instructor's discretion.

## Deadlines and late work

Late work will not be accepted except by instructor discretion. However, partial credit will be given for partially-completed work. It is better to turn in an unfinished assignment for partial credit than to not turn in something on time and receive a 0.

## Attendance

For financial aid purposes, once you have turned in lab 1, you have attended class. In general, to keep up with the class, watch the week's lectures on video, read the book chapters indicated on the calendar, complete the lab, and if there is a project, make progress toward completing it.

## Academic Dishonesty

Cheating on any assignment will result in failing the class. Some things which constitute cheating in this class are:

- Copying another student's homework
- Turning in homework created by another student
- Reading another student's answers on a test
- Sharing all or part of your completed homework with another student before the assignment is due

Appropriate collaboration on homework involves sharing ideas with other students only, not source code! Although it is often tempting to help another student by showing them how your completed program works, this is not helpful to their learning. However, this does not mean you cannot collaborate with other students on homework. Sharing of ideas, principles, and algorithms is permitted and encouraged.

## Course Calendar

CS211 Computer Science 2 Fall 2023 Calendar		
Week	Course Content	Relevant Chapters
Aug 21	Introduction to C++ and Data Types	1, 2, and 3
Aug 28	Control Structures	4, 5
Sep 4	Functions	6
Sep 11	Brief overview of objects	7
Sep 18	Arrays	8
Sep 25	Pointers	10
Oct 2	Debugging tools	
Oct 9	Midterm and Answers	
Oct 16	More on objects	11
Oct 23	C strings	12
Oct 30	File handling	13
Nov 6	Recursion	14
Nov 13	Exceptions, Lambda functions	15
Nov 20	Thanksgiving Break! No class all week	
Nov 27	C++ threads	
Dec 4	Buffer overflow and security issues	
Dec 11	Final Exam starts Tuesday, December 12, at 10:30 AM	