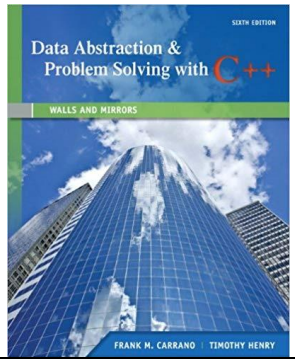
CMPS 2020 - Programming II – Data Structures

Syllabus for Fall 2025 (Section 01 - CRN 82872)

Instructor	Jay Manibo
Office	Virtual over Slack or Zoom / Rm 321
Email	mmanibo3@csub.edu (general questions and communication)
Location	SCI III, Rm 240

	SUN	MON	TUE	WED	THU	FRI	SAT
Schedule			Homework for the week is assigned				
1:00pm - 2:15pm			LECTURE		LECTURE		
2:30pm - 3:45pm			LAB		LAB		

Textbook – ***NOT REQUIRED. RECOMMENDED.***



Data Abstraction & Problem Solving with C++: Walls and Mirrors (6th Edition)

Publisher: Pearson, 2012
ISBN-10: 0132923726

Exam Schedule

MIDTERM 1	Week 6 or so
MIDTERM 2	Week 12 or so
Final	**Tuesday, Dec 9th @ 2pm**

Course Description

Builds on the foundation provided by CMPS 2010 to introduce the fundamental concepts of data structures and algorithms that proceed from within the framework of object-oriented programming technology.

Topics include: recursion, fundamental data structures (including lists, stacks, queues, hash tables, trees and graphs) and basics of algorithmic analysis.

Necessary components of object-oriented programming method will be introduced.

Each week lecture meets for 150 minutes and lab meets for 150 minutes.

Prerequisites: C- or better in the following CMPS 2010 and MATH 1040 or 1050 or 1060 or 2310 or 2510.

Communication

Our preferred method of communication for the class is to use Slack. Slack is a communication and collaboration tool. You are highly encouraged to use Slack as your primary means of reaching out to me for any questions or notifications.

Slack is also used for general dissemination of information, hints, additional lecture material or announcements. Slack is also available as a mobile app on Apple and Android devices.

Use of Canvas is generally limited to providing links and descriptions for your labs and homework. In certain circumstances, announcements will also be made on Canvas.

Office Hours

Please reach out to me to coordinate and arrange a time where we can address your needs. More often than not, you can simply reach out to me on Slack at any time in lieu of office hours.

If you need to spend additional time with me, we can arrange a one-on-one discussion in person, or over zoom as appropriate.

Attendance

You are responsible for your own attendance. If you have to miss a lecture session, be sure to let me know in advance, so you can create a plan on how to make up the class. It is in your best interest to catch up the missed lecture before the next class meeting. **BE WARNED: One missed class can really affect your entire semester. Excessive numbers of unexcused missed sessions can be grounds for removal from the class. In such an event, you will incur a failing grade.**

Academic Integrity Policy

You are allowed, expected and encouraged to work with each other to complete the labs and homework assignments. This does not mean that you are permitted to duplicate each other's work freely. You only shortchange yourself by misusing and abusing the help of others.

Acceptable	Unacceptable
Writing separate pieces of code while openly discussing potential solutions with peers	Copying work partially or completed by another student and claiming as your own
Asking for help from the teacher, TA, tutor, or classmate on understanding requirements, potential solutions, or with debugging activities	Asking the teacher, TA, tutor, classmate, or other persons to complete the work for you with your absent or minimal involvement

Academic Integrity Policy - Artificial Intelligence (AI)

While use of AI tools can sometimes be difficult to monitor, know that any misuse of AI to complete your assigned work can and will have very negative consequences. The use of AI is allowed to help understand code at various levels. **The use of AI and AI tools is prohibited and discouraged as a substitute for outright completion of work for labs, homework assignments, test, quizzes and exams.**

Academic Integrity Policy – Accommodations on Exams

During tests and exams, following are the guidelines for acceptable accommodations and behaviors.

Allowed	Disallowed
Unless otherwise specified on a given question or test, any C++ compilers may or may not be allowed	Unless otherwise specified on a given question or test, any C++ compilers may or may not be allowed
Access to Google or any equivalent search engine	Posting questions on Q/A forum sites (example, Stack Overflow), help sites (example, Chegg Tutor)
Access to your own notes (paper, electronic)	Use of AI and AI tools to solve problems or provide algorithms and solutions
Access to your phone's camera pictures of the whiteboard	Communication with outside parties via any means (verbal, written, electronic, etc)
Access to textbook (printed, PDF), lecture material, demo source code	
Access to your own previous work (code or text files) in your own working folders.	

Services for Students with Disabilities

Any students who have their accommodation letters with the SSD department will be afforded all rights as allowed by SSD by-laws. Please be sure to leave me a copy of your accommodation letter at the beginning of the semester, or at the outset of any new accommodations.

Tutoring Center / Computer Lab

The tutoring center is in Rm 324 on the 3rd floor. See the acceptable uses of the tutoring center as described in the Academic Integrity section above.

Lab & Homework Assignments

Labs are typically assigned after each lecture. Each lab will focus primarily on the topics discussed during the preceding lecture but will also likely involve topics from prior lectures as well.

Homework assignments are typically assigned weekly to summarize the topics covered in that week.

IMPORTANT: All labs and homework assignments are given a due date that is usually within seven days from when they are assigned to you. **You must strive to complete the work by this date to stay on course with the curriculum**. Remember that each lecture day introduces new topics and concepts, building on previous lectures. **You do not have to officially turn in your work until the end of the semester** but you are highly encouraged to keep on track with the weekly due dates.

Any evidence of inappropriate completion of work (including but not limited to copying, use of AI, use of other software tools, etc) can result in a deduction of earned credit, even if the work is completed according to the requirements and their respective deadlines.

Extra Credit

Some assignments or exam questions provide opportunities for extra credit. You are encouraged to take these opportunities as much as possible. Remember that, in many cases, these opportunities provide extra points or credit as long as the standard requirements are completed; completing only the extra credit requirements doesn't count as additional credit.

Grading/Rubric

The standard grading rubric will be used as below

Minimum Score	**0**	**60**	**64**	**67**	**70**	**74**	**77**	**80**	**84**	**87**	**90**	**94**	**97**
Letter Grade	F	D-	D	D+	C-	C	C+	B-	B	B+	A-	A	A+

Labs/Homework	35%
Midterm 1	20%
Midterm 2	20%
Final	25%
Class Participation Bonus	2%

Grading - Missed Exams

If you are unable to be present on any of the exams on their designated dates and times, be sure to let me know ahead of time. Where possible, we can arrange alternate times, **but this is not a guarantee**. If you miss an exam without prior notice, you will not be able to retake the missed exam. If an exam is missed or untaken, your other/remaining exams will be adjusted equally and will be weighted accordingly higher.

Class Participation Bonus

At the end of the semester, I will award—at my discretion—points for class participation. When your total percentage points have been tallied up for the quarter, you can earn:

0 – For no class participation
1 – Some participation
2 – Active, constant participation

For example, if you have an 88% as your final score, and I know you have been actively participating in class discussion, I will award you 2 additional points to bring your grade score to 90% for the quarter.

YOUR CONTINUED PARTICIPATION IN THE CLASS CONSTITUTES ACCEPTANCE OF THE INFORMATION CONTAINED HEREIN.