

Starting Out with C++, From Control Structures through Objects (9th edition); Gaddis, Tony; Addison-Wesley Publishing. ISBN-13: 978-0134498379 ISBN-10: 0134498372 (previous editions OK too).

Notes regarding textbook material: As you read the text, watch the corresponding VideoNotes, available at pearsonhighered.com/gaddis.

ZyLabs is required for this course to submit assignments & class activities. Sign in or create an account at learn.zybooks.com. Use your UTD e-mail address (netid@utdallas.edu).

- Enter zyBook code UTDALLASCECSTE1337VeerasamySpring2020
- Subscribe (costs \$25)

Instructor's PPTs and programs: utdallas.box.com/v/cs1337-files

Software Requirements:

Code::Blocks IDE from codeblocks.org/downloads/26

Additional optional resources:

C++ language tutorial www.cplusplus.com/files/tutorial.pdf

C++ reference: www.cppreference.com

C++ tutorial www.learncpp.com

Academic Calendar (Tentative, but the test dates are fixed):

Week	Topic	Reading
1	Syllabus review, course requirements, terminology. Review: Sequence, Selection & Repetition	Ch. 1-6
2	Review: Arrays <i>No class on MLK day - Monday, Jan 20</i>	Ch. 7-8
3	Review: Arrays	
4	Pointers	Ch. 9
5	Characters, C-Strings, and the String class	Ch. 10
6	Recursion	Ch. 19
7	Structured Data	Ch. 11.1-11.10
8	Test 1 - March 4 @ Testing Center. Reserve your seat in advance. Walk-ins NOT allowed.	
9	Introduction to Classes <i>Spring Break - March 16-20 - No classes</i>	Ch. 13
10	More About Classes	Ch. 14
11	More About Classes	
12	Inheritance, Polymorphism, and Pure Virtual Functions	Ch. 15
13	Inheritance, Polymorphism, and Pure Virtual Functions	
14	Object Oriented Design	

15	Test 2 - April 29 @ Testing Center. Reserve your seat in advance. Walk-ins NOT allowed.	
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Grading Policy

Course credit is only given for work assigned in the course schedule. No extra work will be assigned nor will extra credit be given for any extra work performed by a student.

Tests	40%	<p>There will be 2 tests (mid-term 20% and final 20%) You will be required to take each test during the class timings in a computer at the testing center. Sample test questions will be provided at least 1 week in advance. You will be required to code in the test. There will be 4 questions in the test, each worth 10 points.</p> <p>If you are not happy with your test grade OR you missed the test, you can take a make-up test in the testing center (Max of original test score & makeup test score will be used for the weighted total). More details will be given as we get close to each test.</p>
Assignments	40%	<p>There will be one or two assignments every week & they will have equal weightage – all of them together will contribute 40% to the final weighted grade. All assignments will be completed through ZyLabs. More details about the assignments are given below.</p> <p>Plagiarism is explained in utdallas.edu/conduct/dishonesty and Student Code of Conduct specifies the official policy of UT Dallas. In simple words, if I see any evidence for sharing/copying assignments, I am required to refer the case to the college administration for processing and disciplinary action. Students have been expelled from UTD in the recent past - Don't do it!</p>
Activities	20%	<p>We will work on a series of coding problems in each class. You will be expected to follow along and complete them in the class & submit specific ones in ZyLabs. Activities are not limited to coding problems - occasionally, it can be in-class quiz or even simply attendance. LATE submissions will NOT be accepted. Email submissions will NOT be accepted either. In a sense, this item is to ensure that you are keeping up with the class. With a Doctor note OR approved university Athletes schedule, I will exempt you from specific activity.</p>

Letter grades will be assigned as follows:

97-100	A+	94-97	A	90-94	A-
87-90	B+	84-87	B	80-84	B-
77-80	C+	74-77	C	70-74	C-
67-70	D+	64-67	D	60-64	D-
Below 60	F				

Weighted total in your gradebook shows the current weighted grade based on your graded work. For example, if you have done only 2 assignments & 2 weeks of Class work so far, current grade will be based on only those entries.

Course & Instructor Policies

Laptop is required for this class (well, we are in lab-classroom this semester, so it is optional). I expect you to work on a series of coding problems in every class. I expect you to be physically and mentally present in the class. You are NOT allowed to do anything in the laptop unrelated to the class work.

In addition to meeting the instructor before or after the class, you can also visit the instructor or TA during respective office hours. You can call instructor's office phone during office hours as well. However, be prepared to hold and wait if the instructor is busy with another student in the office. Additionally, you are welcome to email the instructor or TA. This is preferred approach specifically if you run into project related issues & you need help to progress. In such scenarios, in addition to problem description & applicable error messages, zip all your source files and include it with your email too, so that we can help you efficiently.

Assignments

Complexity level of each assignment may vary – students will be expected to spend a few hours in a computer every week. Right way to approach the programming assignments is to start on them right away & get help when you get stuck (you can approach the instructor, TA, or tutors at CS tutoring lab for help). Do not waste lots of hours trying to fix a specific issue. In simple words, your approach will determine whether programming assignments provide an enjoyable learning experience or end up like a painful activity that ruins your self-confidence.

I encourage everyone to submit the assignments early, but I do understand unexpected things happen occasionally and you may not be able to submit assignments on time. Here is my late submission policy: 10% penalty for the first day after the due date, 20% penalty for the 2nd day, and 50% penalty for the 3rd day. Your submissions beyond 3 days will not get any points and the corresponding entries will be assigned 0 in the gradebook. Since all the assignments are turned in to ZyLabs & scores are not automatically transferred to elearning after the due date, you need to let the TA know if you submit the assignment late.

You can develop & test your program in Code::Blocks, Xcode or using any IDE, but you need to pass all the official testcases in ZyLabs to complete. Assignments are partially auto-graded through ZyLabs & that score will appear out of 100 in elearning, then TA will review each submission manually using the following rubrics & reduce points if specific criteria is not satisfied. So, I strongly encourage you to review the gradebook every week and contact the TA first if you have any questions related to assignments' scores.

		Max Score
Pseudocode	High level explanation of steps at the top of program/each function	10%
Source Code	Formatting and coding style	10%
Source Code	Overall design & logic	40%
Execution	Test cases (ZyLabs)	40%
Total		100%

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.