Syllabus

Course Information

Course Number/Section	CSCE 1337.502
Course Title	Computer Science 1
Term	2023 Fall
Classroom Days/Time	Mon, Wed 05:30 PM – 06:45 PM
Classroom	ECSS 2.306

Professor Contact Information

Professor	Scott Dollinger
Office Phone	972-514-7190
Email Address	Scott.Dollinger@utdallas.edu
Office Location	ECSS 3.606
Office Hours	Mon, Wed 12:15 PM – 01:15 PM

E-mail is the best way to contact me.

All e-mails must have **Course.section** in the e-mail subject title, or the **e-mail will not get a response**.

If you have any special problems, p*lease communicate to me via e-mail* as soon as reasonably possible.

TA/GRADER CONTACT INFORMATION

To Be Announced, when assigned will be posted to e-learning under **Contact Help Information** Page in Navigation Pane.

Course Modality and Expectations

Instructional Mode

This is a face-to-face class session course that you must attend.

There are not any lecture or class recordings.
Class material will be posted to blackboard course page as the class progresses.

Course Platform/Mode

This course uses Blackboard.
See the following guides for information:

https://dox.utdallas.edu/manual1073

https://ets.utdallas.edu/elearning/resources/software/blackboard-ultra

Course Attendance

The student is expected to attend all classroom class sessions.
The student is expected to read the assigned readings from the book to fully understand the course topics.

COVID-19 Guidelines and Resources

The information contained in the following link lists the University's COVID-19 resources for students and instructors of record. Please see http://go.utdallas.edu/syllabus-policies.

Class Participation

Regular class session participation, especially attendance, is expected. Students who fail to participate in class regularly are inviting scholastic difficulty. Successful participation is defined as consistently adhering to university requirements, as presented in this syllabus.

Class Materials

The instructor may provide posted class materials that will be made available to all students registered for this class as these are intended to supplement the classroom experience.

These materials may be downloaded during the course; however, these materials are for registered students' use only.

Classroom materials may not be reproduced or shared with those not in class or uploaded to other online environments except to implement an approved Office of Student Access Ability accommodation.

Cell phones usage is *not* allowed in the classroom. You may not audio record, take pictures or videos in the classroom.
The course in classroom activities and lectures are the copyrighted material of the University of Texas at Dallas. University of Texas at Dallas will prosecute any violations against copyright violations.

Failure to comply with these University requirements is a violation of the Student Code of Conduct.

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Prerequisite: CS 1436 or equivalent with at least a grade of C.

Course Description

Review of control structures and data types with emphasis on structured data types.
Applies the object-oriented programming paradigm, focusing on the definition and use of classes along with the fundamentals of object-oriented design.
Includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering concepts.
The programming language used in the course is C/C++.

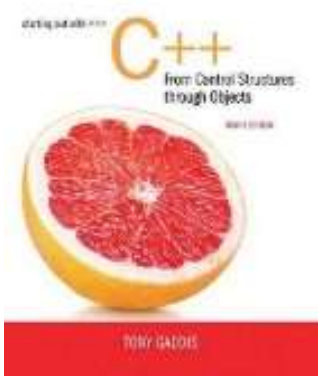
Student Learning Objectives/Outcomes

1. Ability to implement linear and binary searches.
2. Ability to implement simple sorting algorithms.
3. Ability to implement structured data types.
4. Ability to define and implement a class.
5. Ability to use fundamentals of object-oriented design.

Required Textbooks and Materials

Required Texts

Textbook:



Starting Out with C++ from Control Structures to Objects, 9th Ed
Tony Gaddis
ISBN-13: 97801344983799
ISBN-10: 01344983720
© Pearson 2017-02-23

Textbooks and some other bookstore materials can be ordered purchased at the UT Dallas Bookstore.

C/C++ Development Tools

You can use whatever development environment you wish to develop your assignments. It is recommended that you use an Integrated Development Environment (IDE) with source code debugging capability to make your development efforts efficient. The C++ compiler that you use in your development environment must be a C++ 11 version capable compiler. The Visual Studio Community 2022 is used to grade the submissions. If you use a non-Visual Studio IDE, make sure you the build and run in that target platform.

You must understand your IDE so that you know how to extract and identify all files (.cpp, .h, input text files … etc.) required for uploading a grading submission. You must submit assignments by zipping up each of the required files in a zip folder. For more information, see the Assignments in the eLearning system home page, in this page look at Submittal and Development Policy.

UTD has an academic license for the Microsoft Azure Academic site, so students may download a free version of Visual Studio 2022 Community and install it on a personal system. Information will be posted to Blackboard Home Page Navigation Menu on how to download a free version of Visual Studio 2022 Community.

Technical Requirements

In addition to a confident level of computer and Internet literacy, certain minimum technical requirements must be met to enable a successful learning experience.
Please review the important technical requirements on the UTD Getting Started with eLearning webpage.

Course Access and Navigation

This course can be accessed using your UT Dallas NetID account and password on the eLearning (Blackboard) course website.
For all students that are properly registered in the course, UTD will automatically install the student's NetID account logon to the eLearning course roster.
Please see the course access and navigation section of the Getting Started with eLearning webpage for more information.
To become familiar with the eLearning tool, please see the Student eLearning Tutorials webpage.

UT Dallas provides eLearning technical support 24 hours a day, 7 days a week.
The eLearning Support Center includes a toll-free telephone number for immediate assistance: 1-866-588-3192
The center also provides an Email request service, and an online chat service.

Communication

This course utilizes online tools for interaction and communication. Some external communication tools such as regular email and a web conferencing tool may also be used during the semester.

For more details, please visit the Student eLearning Tutorials webpage for video demonstrations on eLearning tools.
Student emails will be answered within 3 working days under normal circumstances.

Server Unavailability or Other Technical Difficulties

The University is committed to providing a reliable learning management system to all users.

However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will provide an appropriate accommodation based on the situation.
Students should immediately report any problems to the instructor and also contact the online eLearning Help Desk.

The eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

Grading Policy

Assessment	Percentage
Test 01	**25**
Test 02	**25**
Assignments	**50**

Range	Grade
97 – 100	**A+**
93 – 96	**A**
90 – 92	**A-**
87 – 89	**B+**
83 – 86	**B**
80 – 82	**B-**
77 - 79	**C+**
73 - 76	**C**
70 - 72	**C-**
60 - 69	**D**
00 - 59	**F**

Each range shown above is inclusive and without any rounding-off. For example, 93-96 for grade A is for the score falling in the range between >= 93 and <= 96 .

In blackboard, final numeric grades are automatically rounded down to an integer.
A grade of 96.999 is evaluated as a 96, a letter grade of A, not A+.

In eLearning, the Running total in your gradebook shows the current weighted grade, based only on your graded work - what you have submitted and is graded. For example, if you have done only Test 1, Assignment 1, Weekly postings so far (but you have missed Test2 and missed Assignment 2), current total grade will be based on only those entries that you have submitted and done that are graded. We will try to enter 0s for missed work as much as possible, but the student is responsible for understanding the current grade.

Extra Credit

Make-Ups

Assignments that received a score of less than 75%, can be made up (re-submitted), but will be graded out of a maximum score of 75.

Such make up assignments must be submitted by the due date and time for makeups listed in the course schedule. During the start of the week that the makeup assignments are due, the submit button will be made available for submitting make-up assignments.

Be careful, Make-up assignments do not have late days.

For more details, see the Assignment Guides in the Assignments in the Navigation Menu in Blackboard.

Late Work

Assignments that are handed in late will be scored as follows:

Days Late	Graded Out Of
1	95
2	90

After 2 late days, assignments will **not** be available for late submittal, but may be submitted later as make-ups.

The last assignment in the course usually does not have any late days. Keep up with and check the course schedule to be aware of such issues.

Course Policies

You are responsible for all the material in the assigned reading in the required course textbook.
You are responsible for all material supplied on eLearning, including announcements.

You must keep up with the course schedule and due dates that are posted to eLearning.

Comet Creed

This creed was voted on by the UT Dallas student body in 2014.
It is a standard by which all UTD Student Comets choose to live by and encourage all others to do the same:

"As a Comet, I pledge honesty, integrity, and service in all that I do."

Academic Support Resources

Please go to Academic Support Resources webpage for these policies.

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 UT Dallas Syllabus Policies webpage for these policies.

The description, schedules and timelines contained in this syllabus are subject to change at any time by the discretion of the Professor. Any changes will be announced in classroom session.

Academic Schedule Calendar

All Assignments are due by 11:59 PM

Week No	Date	Topic/Lecture
01	Aug 21 Mon	Course, Syllabus, eLearning Review
	Aug 23 Wed	C Essentials, 07 Arrays, 08 Searching and Sorting Arrays
02	Aug 28 Mon	Continued
	Aug 30 Wed	09 Pointers, Pointers and Arrays, Dynamic Memory
	Sep 01 Fri	**Assignment 01 Due**
03	**Sep 04 Mon**	**Holiday Labor Day**
	Sep 06 Wed	**Continued**
		Census Due
	Sep 08 Fri	**Assignment 02 Due**
04	Sep 11 Mon	10 Chars, C-Strings, String Class, 11 Structured Data, 12 Files
	Sep 13 Wed	Continued
05	Sep 18 Mon	13 Introduction to Classes
	Sep 20 Wed	Continued
	Sep 22 Fri	**Assignment 03 Due**
06	Sep 25 Mon	14 More about Classes
	Sep 27 Wed	Continued
	Sep 27 Wed	**Assignment 04 Due**
07	Oct 02 Mon	Test 01 Discussion
	Oct 04 Wed	**Test 01**
08	Oct 09 Mon	15 Inheritance, Polymorphism, Virtual Functions
	Oct 11 Wed	Continued
09	Oct 16 Mon	Continued
	Oct 18 Wed	Continued
	Oct 20 Fri	**Assignment 04 Due**
10	Oct 23 Mon	16 Exceptions and Templates
	Oct 25 Wed	Continued
11	Oct 30 Mon	Continued
	Nov 01 Wed	Continued
	Nov 03 Fri	**Assignment 05 Due**
12	Nov 06 Mon	Stacks, Queues
	Nov 08 Wed	Continued
13	Nov 13 Mon	Linked List
	Nov 15 Wed	Continued
14	**Nov 20 Mon**	**Holiday Thanksgiving**
	Nov 22 Fri	
15	Nov 27 Mon	Recursion
		All Make-Ups Are Available
	Nov 29 Wed	Continued
	Dec 01 Fri	**Assignment 06 Due (no late days)**
		All Make-Ups Due (no late days)
16	Dec 04 Mon	Test 02 Discussion
	Dec 06 Wed	**Test 02**
	Dec 11 Mon	**Final Grade Viewable on Blackboard**
		Check your grade.
	Dec 20 Wed	**Final Grades Posting to Orion**

The professor reserves the right to change any part of this syllabus, including this schedule calendar.
Any changes will be announced in class and posted to eLearning site.