# Syllabus

## Course Information

| | |
|---|---|
| *Course Number/Section* | CSCE 1337.5W1 |
| *Course Title* | Computer Science 1 |
| *Term* | 2024 Summer |
| *Virtual Classroom Days/Time* | Tue, Thr  05:30 PM – 07:45 PM |
| *Virtual Classroom* | Online Blackboard Collaborate |

## Professor Contact Information

| | |
|---|---|
| *Professor* | Scott Dollinger |
| *Office Phone* | 214-430-0036 |
| *Email Address* | Scott.Dollinger@utdallas.edu |
| *Office Location* | Contact by Phone During Office Hours |
| *Office Hours* | Tue, Thr  04:30 PM – 05:30 PM |

E-mail to contact me.

All e-mails must have the  **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 TA is assigned information will be posted to e-learning under **Contact Help Information** Page in Course Blackboard Navigation Pane.

## Course Modality and Expectations

### Instructional Mode

This is an online class session course that you must attend.

Class sessions are online using Blackboard Collaborate to run the online Blackboard virtual class sessions.

For any assistance you may need with Blackboard and/or Blackboard Collaborate, contact the eLearning Help Desk . .

There are not any lecture or virtual 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 virtual classroom class sessions.
The student is expected to read the assigned readings from the book to fully understand the course topics.
Attendance is not a grading component for this course.

### 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. Attendance is not a grading component for this course.

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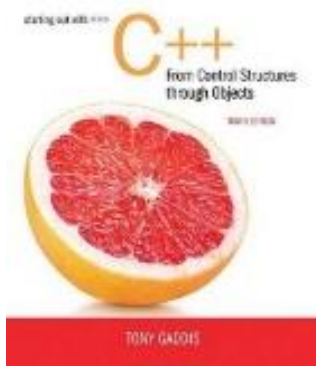
**Starting Out with C++ from Control Structures to Objects, 9th Ed**
**Tony Gaddis**
**ISBN-13: 97801344983799**
**ISBN-10: 01344983720**
**© Pearson 2017-02-23**

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 build and run in the Visual Studio2022 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 submittal 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 maybe used.

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.

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

## 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 with fractional parts are automatically rounded down to an integer.
A grade of 96.999 is evaluated as a 96.

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 and updated grades.

## 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.

## Tests

Grade percent is 50% for Test1 and Test2, so each test is 25%. Each test is a closed book online test taken on campus using Blackboard.

Any tests requiring Student Accommodation must be arranged and scheduled in the beginning of the semester or at least by two weeks prior to the scheduled test date at the discretion of the instructor. Such students must contact the AccessAbility Resource Center to request accommodations. See the student handbook for more information.

Missed tests must have a valid reason for scheduling make-up tests. Such make-up tests need to be coordinated with the instructor. Missed tests for such reasons such as for serious medical condition with Doctor's excuse will be required as a valid proof.

## Assignments

Grade percent is 50% for all assignments.

## General Assignment Considerations

You are expected to start working on assignments when these are posted. Do not expect us to rescue you on the day of submission. You can upload each item as many times as you like up to the last late day,, but the last submission will be the graded item. You will submit your assignments directly to Blackboard.

More details on Assignments, Requirements, and Submission steps will be given in Blackboard.

An instructor who believes a student has committed an act of **plagiarism** should take appropriate action, which includes reporting the issue for academic dishonesty to the Office of Community Standards.

If you need a quick response for an urgent issue or concern, you may send an email to instructor directly via email to get a quicker response and/or immediate attention.

## 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.

## Classroom Citizenship

Please review the UTD policy and guideline on Student behavior and conduct, academic honesty and integrity in https://www.utdallas.edu/conduct/integrity/ and UTD BAIT team in https://www.utd.edu/conduct/bait/.

Also note that all the course materials are only for your individual and personal use and for this course. Do not share or redistribute any of the course materials in any form or means with other. Do not make any of the course materials available via Internet or web site (e.g., git or github) or any commercial sites.

## Comet Creed (Oath)

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

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Week
No     Date        Topic/Lecture

01     May 28 Tue  Course, Syllabus, eLearning Review
       May 30 Thr  C Essentials, 07 Arrays, 08 Searching and Sorting Arrays
       May 31 Fri  End of Late Registration, Last Day to add-swap

02     Jun 04 Tue  09 Pointers, Pointers and Arrays, Dynamic Memory
       Jun 06 Thr  Continued
       Jun 09 Fri  Assignment 01 Due

03     Jun 11 Tue  13 Introduction to Classes
       Jun 12 Wen  Census Due, Last Day to Drop without W
       Jun 13 Thr  Continued
       Jun 09 Fri  Assignment 02 Due

04     Jun 18 Tue  14 More about Classes
       Jun 20 Thr  Continued

05     Jun 24 Mon  Assignment 03 Due
       Jun 25 Tue  Exam Discussion
       Jun 27 Thr  Test 01

06     Jul 02 Tue  15 Inheritance, Polymorphism, Virtual Functions
       Jul 04 Thr  Continued
                   Mid-Term Grades Due to Orion

07     Jul 09 Tue  16 Exceptions and Templates
       Jul 11 Thr  Continued
                   Withdrawal Period Ends

08     Jul 15 Mon  Assignment 04 Due
       Jul 16 Tue  Linked List
       Jul 18 Wen  Continued

09     Jul 23 Tue  Stacks, Queues
       Jul 25 Thr  Continued

10     Jul 29 Mon  Assignment 05 Due
       Jul 30 Tue  Recursion,
       Aug 02 Thr  Continued

11     Aug 08 Mon  Assignment 06 Due  (no late days)
                   All Make-Ups Due   (no late days)
       Aug 09 Tue  Continued
       Aug 02 Wen  Last Class,
                   Test 02 Discussion

12     Aug 07 Mon  Test 02
       Aug 09 Wed  Final Grades Viewable Online in Blackboard for Review

       Aug 13 Tue  Final Grades Due to Orion
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*All Assignments are due by 11:59 PM*

*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.*