



**Course** CS 2337.001  
**Course Title** Computer Science II  
**Professor** Gordon Arnold  
**Term** Spring 2023  
**Meetings** MW 400-515 ECSS 2.311

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### Professor's Contact Information

**Office Location** ECSS 4.232  
**Email Address** [gordon.arnold@utdallas.edu](mailto:gordon.arnold@utdallas.edu)  
**Office Hours** MW 100-300p  
**Website** <http://utdallas.edu/~gordon.arnold>

### General Course Information

<b>Pre-requisites, Co-requisites</b>	Pre-requisite: AP score of at least 4. Pre- or Co-requisite: (CE 2305 or CS 2305) with a grade of C or better or (Data Science major and MATH 3315).
<b>Course Description</b>	Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), and algorithmic analysis. Includes comprehensive programming projects. Programming language of choice is <b>C++</b> . Credit cannot be received for both CS 2337 and CS/CE 2336.
<b>Learning Outcomes</b>	<ul style="list-style-type: none"><li>• Ability to create a comprehensive programming project</li><li>• Ability to implement recursive algorithms</li><li>• Ability to implement linked lists, stacks, and queues</li><li>• Ability to implement a binary tree</li><li>• Ability to use hash tables and graphs</li><li>• Ability to understand algorithmic analysis</li><li>• Ability to implement and use generics/templates</li></ul>
<b>Required Texts &amp; Materials</b>	You must have a subscription to zyBooks <ul style="list-style-type: none"><li>• Sign in or create an account at <a href="http://learn.zybooks.com">http://learn.zybooks.com</a>.</li><li>• You <b>MUST</b> use your UTD e-mail address (netid@utdallas.edu). You will need to create a password for this account. You should <b>not</b> use your UTD e-mail password.</li><li>• Enter zyBook code: <b>&lt;CODE PENDING&gt;</b></li><li>• Subscribe</li></ul>
<b>Grading (credit) Criteria</b>	Homework: 25% Project/Exams: 75% (each project is part of an exam)  Make-up Exams: <b>NONE</b> Extra Credit: <b>NONE</b> Late Work: <b>NONE</b>
<b>Classroom Citizenship</b>	<p><b><u>Homework and projects are individual endeavors</u></b> and students are not to work in groups on any assignment. Students are permitted to discuss homework and projects in general terms, but do not share answers or code. All material submitted for a grade must be your own work. <i>Any violations will be reported to the OCSC without warning.</i></p> <p><b><u>Grades are earned, not given.</u></b> If you want to do well in this class, start early. Show up to class. Pay Attention. Turn in all of your assignments.</p> <p><b><u>All grade disputes must be reported within 1 week</u></b> of the grade in question being posted in eLearning. Uncontested grades will become final after 1 week and cannot be disputed later. If you have questions regarding your grades, please contact me. Please note that due to FERPA, I cannot discuss grades via e-mail.</p> <p><b><u>Any interactions with the professor or other students deemed inappropriate will be reported to the Dean of Students office.</u></b></p>

## Course Policies

<b>Comet Creed</b>	“As a Comet, I pledge honesty, integrity, and service in all that I do.”
<b>Class Materials</b>	The instructor may provide class materials that will be made available to all students registered for this class as they 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 AccessAbility accommodation. <b>Failure to comply with these University requirements is a violation of the <a href="#">Student Code of Conduct</a>.</b>
<b>Class Attendance and Participation</b>	<p>There is a strong, direct correlation between class attendance and class performance. Students who regularly attend class tend to make significantly higher final grades than those who do not. In this class the attendance policy will be implemented as follows:</p> <p style="text-align: center;"><b>Student misses three (3) classes:      Drop one letter grade from final grade</b>  <b>Student misses four (4) classes:      Final grade becomes an F</b></p> <p>To verify attendance, students will be <b>required to bring their Student ID</b> (Comet Card) to class to sign in. Not having your Student ID may result in you being counted as absent. This policy may be waived at the discretion of the instructor if there is a documented reason for the absence (e.g. school events, illness). A student must make every attempt possible, in person or via email, to notify the instructor that he/she will miss a class in advance or in the case of an emergency, immediately thereafter.</p>
<b>Class Recordings</b>	<b><u>Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. This includes cell phone cameras/video and audio.</u></b>
<b>Resources</b>	<p><i>Academic Support: Please go to <a href="http://go.utdallas.edu/academic-support-resources">http://go.utdallas.edu/academic-support-resources</a>.</i></p> <p><i>Syllabus Policies: Please go to <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for these policies.</i></p>

## Academic Calendar

Classes begin	Tuesday, January 17, 2023
Last day to add/swap	Tuesday, January 24, 2023
Census day (drop without a “W”)	Wednesday, February 1, 2023
Exam #1	Saturday, February 18, 2023    3:00pm – 5:00pm
Withdrawal period ends	Thursday, March 30, 2023
No classes: Spring Break	Monday, March 13-19, 2023
Exam #2	Saturday, April 1, 2023    3:00pm – 5:00pm
Last day of classes	Friday, May 5, 2023
Reading day	Saturday, May 6, 2023
Exam #3	Monday, May 8, 2023    3:00pm – 5:00pm
Final exams	Monday, May 8-12, 2023

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