



CS 1436 – Programming Fundamentals Syllabus

Term Spring 2024
Sections CS 1436.003 GR 4.301
 MW 0400-0615p

Instructor

Name Prof. Gordon Arnold
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Course Information

Course Description Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. Programming language of choice is C. Lab fee of \$30 is required. The class is open to students in the School of Engineering and Computer Science only. Credit cannot be received for both courses, CS 1336 and CS 1436. Note that a grade of C or better in this class is required to register for (CE 1337 or CS 1337). (3-2) S

Prerequisites None

Learning Outcomes

- ✓ Develop algorithmic solutions for use on computers
- ✓ Perform console input and output, know data types, utilize basic operators, and perform sequential processing
- ✓ Utilize the basic control structures for selection logic
- ✓ Utilize the basic control structures for repetition logic
- ✓ Perform sequential file input and output
- ✓ Develop programs in a functional form
- ✓ Process data in arrays

Required Texts

- *Starting Out with C++ from Control Structures to Objects, 10th ed.* by Tony Gaddis (\$10.99/month)
- zyBooks subscription (\$40):
 - Make sure you know what sections of CS 1436 you are taking
 - Sign in or create an account at <http://learn.zybooks.com>
 - You MUST use your UTD e-mail address (netid@utdallas.edu)
 - You will need to create a password for this account
 - You should not use your UTD e-mail password
 - Enter zyBook code: **UTDALLASCS1436ArnoldSpring2024**
 - Subscribe

Grading Criteria	Homework	20%	A+	≥97	C-	70-72
	Labs	20%	A	93-96	D+	67-69
	Project/Exams	60%	A-	90-92	D	63-66
	Make-Up Exams	NONE	B+	87-89	D-	60-62
	Late Work	NONE	B	83-86	F	<60
	Extra Credit	NONE	B-	80-82		
	Curve of ANY Kind	NONE	C+	77-79		
			C	73-76		

Course Policies & Classroom Expectations

Comet Creed	“As a Comet, I pledge honesty, integrity, and service in all that I do.”
Attendance Policy	Regular and punctual class attendance is expected. Students who fail to attend class regularly are inviting scholastic difficulty.
CSMC	<p>The Computer Science Mentoring Center (CSMC) is a free resource available to all students taking this class. The CSMC provides assistance in many areas including:</p> <ul style="list-style-type: none">• Understanding core concepts related to this class• Developing a logical framework for a program• Connecting programming constructs to the logic of the program• Assisting in solving syntax and logical errors in your code• Exam reviews and reworks (by faculty request) <p>The mentors will meet with you 1-on-1 to address your specific problem areas. Their goal is to help you understand what is wrong and how to fix it, but they will not do the work for you. For more information about the CSMC, including location and hours of operation, please visit http://csmc.utdallas.edu.</p>
Cheating	<p>Homework, labs, projects, and exams are individual endeavors. The only resources you are allowed to use for your work are:</p> <ul style="list-style-type: none">• your instructor• the assigned textbook (except for the written portion of exams)• the CSMC (except for projects/exams) <p>Any violations will be reported to the OCSC <u>without</u> warning.</p>
Grade Disputes	All grade disputes must be reported within 1 week 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 your instructor. Please note that due to FERPA, grades cannot be discussed via e-mail.
Class Materials & Recordings	<p>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. 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. <u>This includes cell phone cameras/video.</u> Failure to comply with these University requirements is a violation of the Student Code of Conduct, and <u>will</u> negatively impact your grade.</p>

Additional Resources

Academic Support	Please go to http://go.utdallas.edu/academic-support-resources .
Syllabus Policies	Please go to http://go.utdallas.edu/syllabus-policies for these policies.

Testing

The written portion of all exams will be done in the UTD Testing Center. All students must reserve a time slot no later than 48 hours prior to exam time at:

<https://ets.utdallas.edu/testing-center/students/>

If you do not register to take the exam at least 48 hours in advance, you will not be allowed to take the exam and will be **given a grade of 0**. It is recommended that you submit your registration for all three exams on the first day of class and write down the date and time of each.

Course Schedule (Tentative)

Week	Day	Topic	Lab Due	HW Due
0	Wednesday, Jan 17	Class Intro, Chapter 1		HW 1
1	Monday, Jan 22 Wednesday, Jan 24	Number System, Chapter 2		HW 2
2	Monday, Jan 29 Wednesday, Jan 31	Chapter 2	Lab 1	HW 3, 4
3	Monday, Feb 05 Wednesday, Feb 07	Chapter 3	Lab 2	
4	Monday, Feb 12 Wednesday, Feb 14	Chapter 3	Lab 3	HW 5, 6
5	Monday, Feb 19 Wednesday, Feb 21	Review Exam #1		
6	Monday, Feb 26 Wednesday, Feb 28	Chapter 4	Lab 4	
7	Monday, Mar 04 Wednesday, Mar 06	Chapter 4	Lab 5	HW 7
	Monday, Mar 11 Wednesday, Mar 13	Spring Break		
8	Monday, Mar 18 Wednesday, Mar 20	Chapter 6	Lab 6, 7	HW 8
9	Monday, Mar 25 Wednesday, Mar 27	Review Exam #2		
10	Monday, Apr 01 Wednesday, Apr 03	Chapter 5	Lab 8	
11	Monday, Apr 08 Wednesday, Apr 10	Chapter 5	Lab 9	HW 9
12	Monday, Apr 15 Wednesday, Apr 17	Chapter 7	Lab 10	
13	Monday, Apr 22 Wednesday, Apr 24	Chapter 7	Lab 11	HW 10
14	Monday, Apr 29 Wednesday, May 01	Review Exam #3		

Note: All labs and assignments are due on Saturday of that week at 11:59:00pm.

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