

Course Syllabus

Course Information

Course number: CS 1336
Course Title: Programming Fundamentals
Section number: 002
Credit Hours: 3

Contact Information

Instructor: Shyam Karrah
Office: ECSS 4.704
Office hours: Monday & Wednesday 1:00pm. – 4:00pm.
Telephone: (972) 883-4197
Email: skarrah@utdallas.edu

Course Prerequisite

None

Course Corequisite

CS 1136 – A sequence of labs will be assigned and graded for CS 1136, these are separate from the assignments made in CS 1336. Students earn separate grades for CS 1336 and CS 1136.

Catalog Description

CS 1336 - Programming Fundamentals (3 semester hours) Introduction to computers. Primitive data types, variable declarations, variable scope, and primitive operations. Control statements. Methods/functions. Arrays, and strings using primitive data arrays. Output formatting. Debugging techniques. Designed for students with no prior computer programming experience. This class cannot be used to fulfill degree requirements for majors in the School of Engineering and Computer Science. Corequisite: CS 1136. Note that a grade of "C" or better is required in order to register for CS 1335 or CE/CS 1337. (3-0) S

Student Learning Objectives

After successful completion of this course, the student should be able to:

- Use fundamental programming constructs: assignment, loops, conditions
 - Process data in arrays
 - Develop programs in a functional/method form
 - Express algorithms that search and sort arrays
 - Perform sequential file input and output
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Required Textbook

Starting Out With C++: From Control Structures through Objects, Eighth Edition, by Tony Gaddis, Addison Wesley.

Additional Course Materials

The syllabus, calendar, online quizzes, assignments, and other course materials are/will be available at elearning.utdallas.edu.

Tentative Course Calendar

Date	Class Material	Textbook Material
13-Jan	Review of syllabus & Intro. to Computers and Programming	Read Chapter 1 of the textbook
15-Jan	Intro. to Computers and Programming cont'd	Chapter 1 of the textbook
20-Jan	Introduction to C++	Chapter 2 of the textbook
22-Jan	Introduction to C++ cont'd	Review Appendix B – D on the text CD
27-Jan	Introduction to C++ cont'd & Expressions and Interactivity	Chapter 3 of the textbook
29-Jan	Expressions and Interactivity cont'd	
3-Feb	Expressions and Interactivity cont'd	
5-Feb	Making Decisions	Chapter 4 textbook sections 4.1 – 4.12 & 4.14 – 4.15
10-Feb	Making Decisions cont'd	
12-Feb	Making Decisions cont'd	
17-Feb	Making Decisions cont'd	
19-Feb	Exam 1	
24-Feb	Loops and Files	Chapter 5 of the textbook
26-Feb	Loops and Files cont'd	
3-Mar	Loops and Files cont'd	
5-Mar	Loops and Files cont'd	
10-Mar	Functions	Chapter 6 of the textbook
12-Mar	Functions cont'd	
17-Mar	Spring Break	
19-Mar	Spring Break	
24-Mar	Exam #2	Chapters 1 to 5
26-Mar	Functions cont'd	
31-Mar	Functions cont'd	
2-Apr	Functions cont'd	Chapter 7 of the textbook sections 7.1 – 7.10
7-Apr	Arrays	Read Chapter 8, study Case Study 4 – Parallel Arrays on the text CD, and watch the Chapter 8 VideoNotes. As you read, answer the Checkpoint questions for practice (not graded) .
9-Apr	Arrays con'd	
14-Apr	Arrays cont'd	
16-Apr	Arrays cont'd	
21-Apr	Arrays cont'd	Chapter 8 of the textbook
23-Apr	Arrays cont'd	
28-Apr	Searching and Sorting Arrays	
30-Apr	Searching and Sorting	
May	Final Exam	TBA ((Chapters 1 to 8))

The instructor reserves the right to modify this calendar as he deems necessary. Please see eLearning for discussions/announcements regarding changes to the calendar.

Grading Policy

Your course average will be calculated as follows:

The instructor will drop your lowest assignment grade if you submit all assignments as required and receive a grade of 50 or higher on each of the assignments.

Online quizzes will be taken in eLearning. Unannounced/pop quizzes may be given in lecture.

Assignments – 20%

Quizzes – 10% (No Makeups)

Exam #1 – 20%

Exam #2 – 20%

Final Exam – 30%

The instructor intends to assign letter grades as shown below. An average with a fractional portion of five tenths or above will be rounded up to the next whole number for determining the letter grade.

Averages	Letter grade
97+	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-
67-69	D+
63-66	D
60-62	D-
Below 60	F

The instructor reserves the right to lower the average required to receive a particular letter grade.

According to the university catalog a grade of C or better in CS 1336 is a prerequisite for CS 1335 and CS 1337.

Course & Instructor Policies

All assignments will be announced and submitted using eLearning. You will be given at least one week to complete each assignment. Each assignment will include a due date and time. You may submit an assignment up to 24 hours after the due date and time with a 20 point penalty. Please note that eLearning will not let you submit during the late window when a submission was made on time. If you will be submitting any portion late, take the previous submission back to your inbox before the due date/time. **No excuses will be entertained for late assignments.**

You are responsible for all material supplied on eLearning (including discussion postings) whether you choose to read it or not.

Do not send your source code to the TA/instructor unsolicited by email expecting us to debug it. This is not reasonable. There are just too many of you for us to do this. Also, part of learning to program is developing your own debugging skills. It is your responsibility to develop your code in a manner that minimizes errors. You should only ask for help with

debugging as a last resort. We will help you find errors in person during office hours, but you should have narrowed down the problem before coming to see us. When coming in for help, bring both your pseudocode algorithm(s) and your source code or put them out on the network so you can access them from our computer.

If you think there is a mistake in the grading of your assignment and would like to request that it be regraded, you must notify both the TA and the instructor of this in writing within two weeks after the date the grade is posted in the grade book on eLearning. Before you request a regrade of an assignment, first run the tests used by the TA in the grading of your assignment (see the spreadsheet attached to your graded assignment on eLearning).

Make-up examinations will be administered **only for well-documented emergencies**. A student must make every attempt possible, via telephone and email, to notify the instructor that he/she will miss a scheduled exam **prior** to the scheduled date and time or **immediately** thereafter. **If notification is not received in a timely manner, no makeup will be given.** See the information below for the instructor's policy regarding religious holy days.

Make-ups will not be given for missed pop quizzes.

If you think there is a mistake in the grading of your quiz or exam and would like to request that it be regraded, you must notify the instructor of this in writing within two weeks after the date the grade is posted in the grade book on eLearning. Your request for regrade may be sent using email. Your request must describe in detail what you perceive as the problem with the grading.

It is possible that your assignment, quiz, or exam grade may decrease when it is regraded.

All exams are open book and NO notes. PDAs, computers, cell phones, other electronic devices, and backpacks will not be allowed at the desks during examinations. You must bring a photo ID to each examination.

Extra credit work will not be given to individual students.

The instructor expects you to attend the lectures for this course. Attendance will be taken each lecture. There is a strong, direct correlation between class attendance and class performance. Student's who regularly attend class and pay attention to the lecture tend to make significantly higher grades than those who do not.

You are responsible for all material discussed in lecture whether you are present for lecture or not.

Students are expected to be respectful to each other and to the course instructor. Disruptive behavior in the classroom will not be tolerated.

- Please make every effort to be on time to lecture. Do not begin packing up to leave before lecture has ended.
- Electronic devices may not be used in the classroom. This includes laptops, cell phones, PDAs, and music players. You will be required to leave lecture if you break this rule.
- You will be required to sit in assigned seats for lectures and examinations.
- Raise your hand if you have a question or a comment to make about the material presented. The instructor may or may not entertain your question.

Student Conduct & Discipline

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, *A to Z Guide*, which is provided to all registered students each academic year.

The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the *Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3*, and in Title V, Rules on Student Services and Activities of the university's *Handbook*.

of Operating Procedures. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

All assignments, quizzes, and exams for this course are to be individual efforts. You are not to collaborate with other students. Prior to the assignment due date you are not to: discuss assignment solutions with other students, distribute your code to others, or publish your code. Copying of programming assignments, quizzes, or exams, in whole or in part, from other students will be considered an act of scholastic dishonesty. Copying of assignments from previous semesters will be considered an act of scholastic dishonesty.

For programming assignments, you may use source code provided by the instructor. You are not to view, copy, or distribute code from any other sources, including code from other students, code from assignments submitted in past semesters, or code from the Internet. Plagiarism detection software will be employed to detect copying of code.

Email Use

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.

Withdrawal from Class

The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

Student Grievance Procedures

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's *Handbook of Operating Procedures*.

In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called “the respondent”). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent’s School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean’s decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

Incomplete Grade Policy

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester’s end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of F.

Disability Services

The Office of Student AccessAbility is committed to ensuring that qualified students with documented disabilities are provided with an equal opportunity to participate in the variety of educational, recreational and social opportunities at UT Dallas.

The Office of Student AccessAbility is located in room 3.200 in the Student Services Building. Office hours are Monday and Thursday, 8:30 a.m. to 6:00 p.m. and Friday, 8:00 a.m. to 5:30 p.m.

The contact information for the Office of Student AccessAbility is:

UT Dallas Student AccessAbility
800 W. Campbell Rd., SSB32
Richardson, TX 75083
(972) 883-2098 (voice or TTY)
disabilityservice@utdallas.edu

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance. It is the student’s responsibility to notify his or her professors of the need for such an accommodation. Office of Student AccessAbility provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

Religious Holy Days

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.

Instructor's policy regarding Religious Holy Days:

You must notify this instructor in writing of any religious holy days that will prevent you from attending class as scheduled by census day (**September 10, 2012**). If the holy day coincides with a scheduled examination, you must request a makeup examination in writing, this exam will be scheduled before the original exam date. If the holy day coincides with an unannounced quiz, you will be given an opportunity to make up the quiz provided that you have previously notified the instructor as required above. Students will be informed on eLearning of the due date of all assignments at least one week in advance. If a religious holy day will prevent you from submitting an assignment on the due date, you must submit the assignment early via eLearning.