CS 1325 Course Syllabus

COURSE INFORMATION:

Course Number: CS 1325
Course Title: Introduction to Programming
Course Term: Spring 2018

INSTRUCTOR CONTACT INFORMATION:

Name: Laurie Thompson
Office: ECSS 3.701
Telephone Number: (972) 883-6326
Office Hours: Mondays 11:00am – 12:00pm
Wednesdays 11:00am – 12:00pm
Thursdays 2:00pm –4:00pm
Email Address: Laurie.Thompson@utdallas.edu or select Thompson, Laurie from the UT Dallas Email in eLearning. **Emails must have a Subject that begins with "CS1325.002"**.

GRADER CONTACT INFORMATION:

To be determined at a later date. Contact information will be provided in eLearning.

COURSE PREREQUISITES:

Prerequisite: CS 1336 with a grade of C- or better.

COURSE DESCRIPTION:

CS 1325 Introduction to Programming (3 semester credit hours) Computer programming in a high-level, block structured language. Basic data types and variables, memory usage, control structures, functions/procedures and parameter passing, recursion, input/output. Programming projects related to engineering applications, numerical methods. May not be used to satisfy degree requirements for majors in Computer Engineering, Computer Science, Software Engineering, and Telecommunications Engineering. Prerequisite: CS 1336 or equivalent. (3-0) S

STUDENT LEARNING OBJECTIVES/OUTCOMES:

1. Ability to use fundamental programming constructs: assignment, loops, conditions
2. Ability to process data in arrays
3. Ability to develop programs in a functional form
4. Ability to perform sequential file input and output

5. Ability to express algorithms that solve elementary engineering and scientific problems

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REQUIRED TEXTBOOKS AND MATERIALS:

Required Textbook:

C HOW TO PROGRAM, 8/E, by Paul Deitel and Harvey Deitel, Pearson Education. ISBN: 978-0-13-397689-2.

Slides, Sample Programs, etc.:

Other materials including the syllabus, assignments, slides and sample programs will be posted in eLearning.

https://elearning.utdallas.edu

C/C++ Compiler:

Information on the C/C++ Compiler used in lecture and in the grading of your assignments will be provided in a separate document.

The CS/SE lab in ECSS 2.104 has computers you can use to complete your assignments. Also the software used by the instructor and graders can be downloaded and installed on your personal Windows based machine for free. Suggestions for Mac users will also be provided.

TENTATIVE COURSE CALENDAR:

Date	Lecture Material	Reading Assignment Due
January 8	Review of syllabus, eLearning Access and Compiler	
January 10	Introduction to C Programming	Chapter 2 of the textbook
January 15	**MLK Day – No Class**	
January 17	C Formatted Input / Output	Chapter 9 of the textbook
January 22	C Formatted Input / Output	
January 24	Structured Program Development in C	Chapter 3 of the textbook
January 29	C Program Control	Chapter 4 of the textbook
January 31	C Program Control	
February 5	C Functions	Chapter 5 of the textbook
February 7	C Functions	
February 12	C Functions	
February 14	C Functions	
February 19	C Arrays	Chapter 6 of the textbook
February 21	C Arrays	
February 26, Testing Center SPN2 First Floor	**Exam #1 – Reserve your seat immediately at https://www.registerblast.com/utdallas/Exam/List**	
February 28	C Arrays	
March 5	C Pointers	Chapter 7 of the textbook
March 7	C Pointers	
March 12	**Spring Break – No Class**	
March 14	**Spring Break – No Class**	
March 19	C Pointers	
March 21	C Pointers	
March 26	C Characters and Strings	Chapter 8 of the textbook
March 28	C Characters and Strings	
April 2	C Structures, Unions, Bit Manipulation and Enumerations	Chapter 10 of the textbook
April 4	C Structures, Unions, Bit Manipulation and Enumerations	
April 9	C Structures, Unions, Bit Manipulation and Enumerations	
April 11	C File Processing (Sequential File Access)	Chapter 11 of the textbook through section 11.4 only
April 16	C File Processing	
April 18	C Data Structures	Chapter 12 of the textbook through section 12.6 only
April 23	C Data Structures	
April 25	C Data Structures	
May 4, In the Testing Center SPN2 First Floor	**Exam #2 – Reserve your seat immediately at https://www.registerblast.com/utdallas/Exam/List**	

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

GRADING POLICY:

Your course average will be calculated as follows:

Exam #1 – 30%
Exam #2 – 40%

Programming Assignments – 20%

The instructor will drop your lowest assignment grade if you submit all assignments as required and receive a grade of 60 or higher on each of the assignments.

Historically students who skip programming assignments, or do not put much effort into their programming assignments, or get a lot of help from classmates, mentors, or others do not perform well on exam questions testing the material covered by the assignment.

Online quizzes, in class quizzes and exercises – 5%

In class exercises and quizzes may be given at any time. **Make-ups will not be given.**

Attendance and citizenship – 5%

The citizenship portion of your grade will be based upon your regular on-time attendance of lectures, participation and attentiveness in lecture and adherence to lecture policies (See Conduct in Lecture).

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

Departmental Attendance Policy:

The Computer Science Department has adopted the following attendance policy for all CS/SE courses:

- Three consecutive absences will result in a reduction of your course grade by one letter grade. (A goes to B, B+ goes to C+, C- goes to D-, etc.).
- Four consecutive absences will result in the recording of an F for the course.

What you need to do to be successful in this course:

- Attend every lecture and pay close attention to lecture (don't let yourself be distracted).
- Dedicate 9-10 hours per week outside of lecture to CS 1325 for reading, practicing writing code, completing assignments, and studying for exams.

- Enter the sample programs from the text. Experiment by making small changes. Note how the changes effect the program translation and/or execution.

  The more programs you practice with outside of lecture the better you will do in this course. In lecture I will teach you the syntax of the C programming language and about typical programming constructs. I will also show you samples of programs and of the use of programming constructs / patterns. I will introduce you to program development methodologies. However, you learn to program by doing – coding, testing, and fixing (debugging).
- Read your assigned reading before the lecture. You are expected to have a basic understanding of the assigned textbook material before lecture. The focus of lecture will be program development.
- At the end of each chapter, complete the Self-Review Exercises.
- Start your assignment immediately. All assignments are designed to be worked on over a period of days or weeks. I expect that you will work on the assignment a little at a time rather than waiting until a day or two before it is due. Those that procrastinate will find this class to be much harder than it should be and will face the risk of below average grades.
- Ask for help!
  - The instructor is available to help during office hours.
  - Be proactive.
    - Don't wait till the day an assignment is due to seek help. Please note that I do not have office hours every day. If you wait till close to the assignment due date to seek my help, it is possible that I won't have any office hours that day or there may be many students who will be competing for my time when you come to my office hours. **You may not email your code to the instructor or grader expecting us to find your errors.**
    - Don't wait till the end of the semester to seek help. If you have gotten far behind in your coursework or have done significant damage to your course average, I may not be able to help.

COURSE & INSTRUCTOR POLICIES:

Student Responsibilities:

You are responsible for all the material in the assigned reading in the required course textbook.

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

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

Students are expected to be respectful of each other and of 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. It is likely that I will keep you until the end of the time allotted for every lecture and also that on many occasions I may keep you a few minutes over if we are in the middle of a discussion. Disruptions in lecture including students packing up early increase the likelihood of this occurring. The instructor does not intend to keep you more than 3 minutes after the normal end of lecture.
- You may not use phones in lecture.

- You may not listen to music during lecture.
- Raise your hand if you have a question or a comment to make about the material presented. The instructor may ask you to bring your question to office hours if it cannot be entertained in lecture.

Attendance Policy:

In class exercises or quizzes will be given and/or attendance will be taken each lecture.

You will be considered absent if you are not present when attendance is taken or if you leave before the end of lecture.

If you need to leave lecture early or arrive late for a legitimate reason, please notify the instructor by email before class.

If due to unforeseen circumstances you arrive after attendance was taken, you must inform the instructor at the end of lecture or you will be counted absent. This must not be a regular occurrence or it will impact the citizenship portion of your grade.

Assigned Seating in Lecture:

To facilitate classroom management, seating will be assigned. The student will have some input as to where they will sit during lectures. Seat assignments are subject to change at the instructor's discretion.

Devices Policy:

You may not use your cell phone, PDA, music device, etc. during lecture without permission from the instructor. Headphones and earbuds must be put away; dangling them from your head or neck is not acceptable.

If it appears that you are looking at your cell phone in your lap, etc. a reduction will be made in the citizenship portion of your grade.

Conduct in Lecture:

Professional conduct is expected during lecture. Deductions to the citizenship portion of your grade may be made for:

- Disruptive/Disrespectful behavior in lecture
- Repeatedly coming to lecture unprepared (without having read assigned reading, without a writing implement or without paper)
- Failure to adhere to the instructor's devices policy
- Sleeping during lecture or other inattentiveness
- Repeatedly coming to lecture late or leaving early

Course Assignments:

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. **No excuses will be entertained for late assignments.**

You may not send your source code to the grader or 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 your source code or put them out on the network so you can access them from our computer.

In Class Quizzes and Exercises:

Quizzes or exercises may be given in lecture with or without previous notification. **There are no make-ups for these.** The instructor will however drop the lowest in class quiz/exercise.

Online Quizzes:

Quizzes may be given in eLearning to ensure that students are keeping up with reading and lecture preparation.

There are no make-ups for online quizzes.

Online Quizzes will be announced in eLearning at least 1 week before they are due.

Exams:

Course Exams will be administered in the Testing Center, SPN2 First Floor. An advance reservation is required for all exams. Please see the **TENTATIVE COURSE CALENDAR** in this document and the Course Calendar in eLearning for exam dates.

We will not have lecture on the day of the exams as your exam window will likely be during or overlap our normal lecture time.

Reservations for exams are made at:

https://www.registerblast.com/utdallas/Exam/List

You will be required to present a photo ID at each examination.

All exams are closed book and closed notes.

PDAs, computers, cell phones, other electronic devices, backpacks, and books will not be allowed at the desks during examinations.

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 make-up will be given.**

Academic Integrity:

All assignments, quizzes, and exams 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.

Extra Credit Work:

Extra credit work will not be given to individual students.

Grading Concerns:

If you think there is a mistake in the grading of your assignment or in class exercise and would like to request that it be regraded, **you must notify both the grader and the instructor (email the grader and copy the instructor)** of this by email 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 review the grading file attached to your graded assignment on eLearning. Run the tests used by the grader in the grading of your assignment (see the grading file or additional information provided by the instructor regarding the grading of the assignment).

Most deductions are made because students did not fully read the assignment instructions or disregarded the instructions. You may not change the problem to suit your purposes. Most assignments restrict the use of programming constructs and library functions not covered in lecture. Others require that you use particular constructs or functions. To get the maximum credit you must read the directions carefully and test your programs thoroughly.

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 by email within **two weeks** after the date the grade is posted in the grade book on eLearning.

Your request for any regrade must describe in detail what you perceive as the problem with the grading. Keep in mind that a regrade may result in an increase or in a reduction of the original grade.

COMET CREED:

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

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

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 http://go.utdallas.edu/syllabus-policies for these policies.

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