Course	CE/CS/SE/TE: CS2336.502.17F
Course Title	**Computer Science II**
Name	Kamran Z. Khan
Term	2017 Summer
Meeting Times	2336.502:Tue/Thurs: 5:30pm-6:45pm GR 3.420

Contact Information

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Office Hours	Mon, Tue, Wed, Thurs: 4:30-5:30 or by Apt via email.
E-mail:	**Please include your course and section either in the subject or the body of your e-mail (preferably on the first line if not in the subject)**. This will help me to address your e-mail as quickly as possible.

General Course Information

Pre-requisites, Co-requisites, & other restrictions	CE 1337 or CS 1337 or TE 1337 with a grade of C or better. Prerequisite or Corequisite: CE 2305 or CS 2305 or TE 2305 with a grade of C or better. (Same as CE 2336 and TE 2336) (3-0) S
Course Description	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 Java.
Learning Outcomes	1. Ability to implement recursive algorithms 2. Ability to implement linked lists, stacks, and queues 3. Ability to implement a binary tree 4. Ability to use hash tables and graphs 5. Ability to understand algorithmic analysis 6. Ability to create a comprehensive programming project
Required Texts & Materials	Intro to Java Programming (10th Edition) Liang ISBN-13: 978-0133761313 ISBN-10: 0133761312

Assignments & Academic Calendar

[Topics, Reading Assignments, Due Dates, Exam Dates]

CLO	Date	Material
1	8/22-24	Syllabus. Introduction, Review Chapters 1-8
	8/29-31	Introduction, Review Chapters 1-8
1	9/5-7	Chapters 9 Objects and Classes, Chapter 11 Inheritance and Polymorphism
1	9/12-14	Chapter 11 Inheritance and Polymorphism, Chapters 18 Recursion
6	9/19-21	Chapter 13 Abstract Classes and Interfaces, Midterm (Lectures 1 - 10)
2	9/26-28	Chapter 19 Generics, Chapter 20 Lists, Stacks, Queues, Priority Queues
2	10/3-5	Chapter 20 Lists, Stacks, Queues, Priority Queues
2	10/10-12	Chapter 24 Implementing Lists, Stacks, Queues, Priority Queues
4	10/17-19	Chapter 21 Sets & Maps, Chapter 27 Hashing
	10/24-26	Midterm
4	10/30-1	Chapter 21 Sets & Maps, Chapter 27 Hashing
5	11/6-8	Chapter 22 Development Efficient Algorithm, Chapter 23 Sorting
5	11/13-15	Chapter 22 Development Efficient Algorithm, Chapter 23 Sorting
	11/20-22	Fall Break
	11/27-29	Chapter 25 Binary Search Trees
	12/4-6	Final Exam Review; Final Exam (Material Covered: 8/22-12/4)

Help Desk: For help with issues regarding your computer, UTD maintains a walk-in help desk. Visit their Web site for details: http://www.utdallas.edu/ir/helpdesk/

Tutoring: For programming assistance in CS2336, please visit me, the TA, or the Mentoring Center. The schedule for the Mentoring Center will be released within the first week of classes. Once the Mentoring Center schedule for this semester has been released, an announcement will be posted on eLearning. **If you need help, please make the effort to reach out. We can't help you if we don't know that you need help.**

Resources:
http://javabeginnerstutorial.com/core-java/
http://stackoverflow.com/questions/tagged/java
http://introcs.cs.princeton.edu/java/10elements/

As you read the text, watch the corresponding VideoNotes. The VideoNotes are available at http://www.pearsonhighered.com/liang/

NOTE: VideoNotes are only available if your book comes with an access code. If your book does not have an access code, you can buy one online at the above address. **The access code is not required for class**, but some of you may find the material accessible with this code to be a good resource.

Java Compiler (Required)
All projects you submit will be compiled with **JDK 7 or 8**. This is a free download for all OS. Eclipse is the IDE for this course. http://www.oracle.com/technetwork/java/javase/downloads/index.html

Departmental Attendance Policy: The Computer Science Department has implemented the following attendance policy beginning Fall 2016:
If a student misses three consecutive classes, the student will receive a letter grade reduction to his or her final grade. This deduction is cumulative, so if a student misses three consecutive classes twice, the final grade will be reduced by two letter grades. **If a student misses four consecutive classes, the student will automatically receive an F for his or her final grade.**

Grading Scale:

98-100 A+	88-89 B+	78-79 C+	68-69 D+	Below 60 F
92-97 A	82-87 B	72-77 C	62-67 D	
90-91 A-	80-81 B-	70-71 C-	60-61 D	

Course Policies

Grading (credit) Criteria	Midterm 25%; Final Exam 40%; Homework Assignments: 30% (Writing and Programming) Participation/Discussion: 5%; Programming projects may require demonstration to the instructor or the TA for the student to receive a grade on them. To pass the course, a student has to pass separately in examinations and homework assignments. In order to obtain an "A" or "A-" grade a student must perform above class average in the examinations, as well as above the class average in the homework assignments. This is the minimum requirement, and satisfying this requirement does not guarantee an A or A- grade.
General Grade Information	All grades will be available in eLearning. Please note that due to FERPA, I cannot discuss grades via e-mail. **When you email the TA with questions about your grade, please copy me on the email so that I am aware of the situation and can make sure it is resolved.**
Make-up Exams	An exam should not be missed except for the most extreme circumstances (such as hospitalization or death of an immediate family member). A make-up exam may be given to students with a valid reason (and documentation) for missing the exam. Otherwise, the missed exam grade will be zero. The allowance of a make-up exam is at the sole discretion of the instructor. Make-up exams must be completed within 48 hours of the date and time of the exam.
Extra Credit	No extra credit work will be assigned.
Late Work	Programming projects submitted after the due date will be penalized at the rate of 20% of the total credit for that project for every day (not including weekends and holidays) by which they are late. Late submissions will not be accepted once the solution has been discussed in class and the graded submissions have been returned.
Class Attendance	Regular attendance is highly recommended. Unexcused absence in three successive lectures will result in a dropping of one letter grade; and four successive lectures will result in a failing grade (as per the Computer Science department's policy)
Classroom Citizenship	The instructor encourages students to take active part in class discussions. No question is too simple/stupid to be asked. So, do not hesitate.
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.