Course	CE/CS/SE/TE: CS2336.005/501
Course Title	**Computer Science II**
Name	Kamran Z. Khan
Term	2018 Fall
Meeting Times	Tue/Thu: 5:30pm-6:15pm/8:30pm-9:45pm

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.

TA Office Hours: TBD

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	Material
1	**Syllabus. Introduction, Review Chapters 1-8**
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1	**Chapters 9 Objects and Classes, Chapter 11 Inheritance and Polymorphism**
1	**Chapter 11 Inheritance and Polymorphism, Chapters 18 Recursion**
6	**Chapter 13 Abstract Classes and Interfaces, Midterm (Lectures 1 - 10)**
2	**Chapter 19 Generics, Chapter 20 Lists, Stacks, Queues, Priority Queues**
2	**Chapter 20 Lists, Stacks, Queues, Priority Queues**
2	**Chapter 24 Implementing Lists, Stacks, Queues, Priority Queues**
4	**Chapter 21 Sets & Maps, Chapter 27 Hashing**
4	**Chapter 21 Sets & Maps, Chapter 27 Hashing**
5	**Chapter 22 Development Efficient Algorithm, Chapter 23 Sorting**
5	**Chapter 22 Development Efficient Algorithm, Chapter 23 Sorting**
3	**Chapter 25 Binary Search Trees**

Final Exam Review 12/4/2018; Final Exam Comprehensive 12/6/2018 (In Class)

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/

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	Daily/Weekly Quizzes: 35%; No Midterm 0%; Final Exam 30%; Homework/Programming 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	For all assignments there will be an actual submission due date and a late submission due date. Points will be associated to each submission accordingly. You only submit once, either on actual due date or on late due date.
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.