CSE 1325 OO and Event-Driven Programming using Java (Section 001)
Department of Computer Science and Engineering
The University of Texas at Arlington
Offering: Fall 2011
Time: Tuesday/Thursday 11AM to 12:20 PM
Place: NH 110 (Nedderman Hall)
Instructor: Shamma Chakravarthy, 329 Nedderman Hall
Phone: 272-2082, email: sharma@cse.uta.edu,
Course URL: https://www.wweb.uta.edu/faculty/shamar/courses/coursepage.asp
Research URL: http://itlab.uta.edu/sharma
Instructor Office Hours: Tu/Th 9:00 am to 11 am
TA: Yuanzhe Cai
Email: Yuanzhe.cai@mavs.uta.edu
Office Hours: M/W 10 to noon

Prerequisites: CSE 1320

Catalog Description: Advanced program design and implementation in the Java programming language. Object-oriented and event-driven concepts including the Java API, classes and objects, applications, applets, regular expressions, strings, inheritance, polymorphism, graphics and graphical user interfaces, layout managers, exception handling, collections, generics and multithreading. Windows operating system is used.

Objective: This is a course on problem solving using object-oriented and event-driven programming concepts. Java will be used as a vehicle for introducing the OO and event-driven features for solving problems. The emphasis will be on understanding the concepts and mapping them to features available in a programming language (Java will be used as an example). There will be several hands-on projects to understand the usage of OO and event-driven concepts.

Course Outline: The course will cover the fundamentals as part of three modules.

- **Module I**: OO concepts, language features used for OO programming (classes, methods, inheritance, polymorphism, …)
- **Module II**: Event-driven applications (exception handling, using event-driven programming for GUI development)
- **Module III**: Advanced features of problem solving (recursion, generic classes, multi-threading, applets, …)

Textbook:


References:

Lectures slides provided by the instructor
**Project:** Since the emphasis of this course is on learning problem solving and using JAVA, there will be several hands-on programming projects throughout the semester. Typically, these projects build upon each other. So, it is important that you complete all the projects. The complexity of projects will increase as the semester progresses as you will gain experience and use advanced features of Java. You may be asked to demonstrate the project and answer questions on the design and implementation of your project.

**Grading:** There will be 4 to 5 programming assignments emphasizing different aspects of features learned in the class. These hands-on projects will constitute approximately 45% of the total grade. There will be at most 2 in-class quizzes and 2 tests that will constitute approximately 55% of the total grade (6% for quizzes and 18% for test1 and 25% for test2). 5% is for class participation and attendance which includes how often you come and see the instructor and/or the GTA for help on class material and project completion. This is an initial proposal. The instructor reserves the right to re-distribute the percentages if deemed necessary. Students may be asked to make an in-class presentation on the project experiences. Attendance and class participation is important for doing well on the course. **Based on past observations, typically, one standard deviation on either side of class average is likely to be a B grade.**

**Academic Honesty:** I strictly adhere to The University of Texas at Arlington rules and guidelines for handling violations of academic dishonesty. Please refer to the pamphlet “CHEATING: Definitions and Consequences” for additional information. You are required to sign and return two statements about academic dishonesty. If anyone is caught for cheating, plagiarism or collusion either on the project or on the quiz/exam, the grade for the course will be an automatic Fail grade (F). For projects, all members of the team will receive the same penalty; so make sure you are aware of what your partner is doing!

**How to Do Well in This Course:** Students who get the most out of this course will be the ones who put in the most effort. If you want to do well, attend all the lectures, read the assigned sections of the book/papers, and start early on your projects. Working out the assigned sample questions and questions from book chapters will immensely help in doing well on quizzes/exams. If you are having difficulty, you owe it to yourself to get help. We will be more than happy to help you. Don't be afraid to come and see us. Please make use of the office hours which are meant to help you. If you can't make it to office hours but really need help, contact one of us for an appointment. I sincerely want all of you to do well. It is your responsibility to check the web site at least twice a week.

**NOTE 1:** The class schedule, exam, and project due dates are tentative. Test 2 may be scheduled on the day of the final exam. Project deadlines and exam dates may be changed (with sufficient notice) based on the progress made in the class. The course officially ends on the day of the final exam. No makeup quizzes or exams will be given unless there is a justifiable documented reason.

**NOTE 2:** Once the grade of a quiz/exam/project is distributed, you will have 5 business days to dispute it and get it re-evaluated. No re-evaluation will be entertained after the 5 day period. For projects, as part of the document, what has been designed and implemented by each partner (if it is done as a team) should be clearly stated and documented. All team members will get the same grade on the project.