

The University of Texas at Dallas
The Naveen Jindal School of Management
MIS4310.001 – Fall 2013 – Course Syllabus

Course Information

Course Number/Section: MIS4310.001
Course Title: Programming in Java
Term: Fall 2013
Day and Time: Tuesday and Thursday 11:30 AM – 12:45 PM
Classroom: JSOM 2.801

Instructor Contact Information

Professor: Thuan Nguyen
Office Location: JSOM 2.409
Office Hours: Tuesday 10:15 AM – 11:15 AM
Email Address: For all written communication, E-Learning is required

TA: Sharath Dudipala
TA's Office Hours: Thursday 4:00 PM - 6:00 PM
TA's Office Hour Location: Computer Lab - JSOM 1.211
TA's Email Address: For all written communication, E-Learning is required

Course Prerequisites

Prerequisites: MIS3300, MATH 1326, and MATH 2333 or OPRE 3333

Course Descriptions

The primary objective of this course is to introduce students to the fundamental concepts and techniques of object-oriented programming in Java programming language using a popular integrated development environment (IDE). Other advanced topics that are covered during the course are GUI programming, exception handling, data structures, and database.

Course Learning Objectives

1. Students will be introduced to Eclipse that is currently the most popular Integrated Development Environment (IDE) for Java development. Students will be able to effectively use the IDE to create projects, write programs, compile, and run their Java programs.
 2. Students will develop programming skills to write programs in Java.
 - a. Students will first acquire basic skills of programming using different programming techniques such as selections, loops, etc., with basic data structures like arrays.
 - b. Students will then learn more advanced topics such as exception handling and GUI programming.
 3. Students will learn the basic concepts of object-oriented programming.
 4. Students will also be introduced to basic concepts of database. Students will learn how to write Java programs that can connect to databases, insert new records into the database, retrieve data from databases and display it.
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Suggested Textbook

Introduction to Java Programming (Comprehensive Version), 9th edition, by Y. Daniel Liang
Pearson Education Inc., publishing as Prentice Hall
(ISBN-10: 0-13-293652-6; ISBN-13: 978-0-13-293652-1)

Suggested Texts, Readings, and Materials

Tutorials: <http://docs.oracle.com/javase/tutorial/>

Required Computers

1. A laptop computer

Required Software

1. Java JDK - Java SE 7 Update 25
 - a. For Windows OS users:

Important Note: Many editions, versions, and updates of Java JDK are available for downloads. Students must be sure that the correct version of Java JDK is selected, downloaded, and installed:

Edition: Standard Edition (SE), Version: 7, Update: 25

There are 2 versions of the Java JDK, 32-bit and 64-bit, available for downloads. Students should use the 32-bit version no matter which version (32-bit or 64-bit) of the Windows operating system is installed in their laptop. (*Notes: it is normal to install 32-bit software applications to run on the x64 Windows 7 operating system*)

Free download of Java JDK – Java SE 7 Update 25

Link: <http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html>

Java JDK file name to download for 32-bit: [jdk-7u25-windows-i586.exe](#)

- b. For Mac OS X users (x64: 64-bit)

Link: <http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html>

Java JDK file name to download for Mac OS X x64: [jdk-7u25-macosx-x64.dmg](#)

2. Eclipse IDE for Java Developers

- a. Free download of Eclipse: <http://www.eclipse.org/downloads/>

- b. **Important Notes:** Many packages of Eclipse IDE are available for downloads. Students must be sure that the correct package of Eclipse (*Eclipse IDE for Java Developers*) is selected, downloaded, and installed.

The [version of Eclipse IDE](#) must be **compatible** with the version (32-bit or 64-bit) of the [Java JDK](#). If the 32-bit Java JDK is installed, Eclipse IDE of 32 bits must be used.

Supporting Computing Resources

All the required software applications are currently available in JSOM labs PCs. Students can use these PCs for their class work whenever the labs are open.

Documentations with step-by-step details of how-to install the above required software applications will be posted in E-Learning.

Homework and Exams

There will be six homework assignments throughout the course. All homework and answers, including sample of java code, will be posted in the E-Learning. The lowest homework grade will be dropped. Students are required to submit their homework on time.

There will be two exams: Exam 1 (Midterm) and Exam 2 (Final)

All requests, including re-grading, regarding to a homework assignment or an exam must be submitted in writing via E-Learning.

Make-Up Policy

No make-up tests will be offered except for medical reasons.

Students will be required to provide necessary documentation.

Late-work Policy

All assignments are to be submitted via E-Learning.

The deadline for submitting an assignment is 11:00 PM on the due date.

Late submissions can still be submitted via E-Learning up to 24 hours after the deadline.

Assignments submitted within 24 hours after the due date/time will be subject to a 25% penalty.

No submissions will be accepted later than 24 hours after the deadline.

Class Schedule

The following is a tentative schedule. Should any change become necessary, it will be announced in class as well as posted in the E-Learning. It is the student's responsibility to check for changes in the schedule.

Week	Date	Topics	Suggested Reading
1	8/27 - 8/29/2013	Course Overview Introduction to Eclipse IDE Elementary programming in Java	Chapter 2
2	9/3 - 9/5/2013	Elementary programming in Java Homework #1 is assigned	Chapter 2
3	9/10 - 9/12/2013	Selection statements Handling exceptions in Java programming	Chapter 3 Chapter 13
4	9/17 - 9/19 2013	Loops Homework #1 is due Homework #2 is assigned	Chapter 4
5	9/24 - 9/26/2013	Arrays: single-dimensional and multi-dimensional	Chapter 6, 7
6	10/1 - 10/3/2013	Objects and Classes Class attributes and their scopes Class methods and their scopes Homework #2 is due Homework #3 is assigned	Chapter 8 Chapter 5
7	10/8 - 10/10/2013	Objects and Classes: Variables and their scopes Review for EXAM 1	Chapter 10 -Section 10.3

8	10/15/2013	EXAM 1 (PART I)	Chapter 10 - Section 10.5
8	10/17/2013	EXAM 1 (PART II) Homework #3 is due	
9	10/22 - 10/24/2013	Object-Oriented Concepts: Abstraction & Encapsulation Object-Oriented Concepts: Inheritance & Polymorphism Homework 4 is assigned	Chapter 11
10	10/29 - 10/31/2013	Swing - the Java GUI widget toolkit Introduction to WindowBuilder in Eclipse IDE Major Swing GUI components	Chapter 12 Chapter 17
11	11/5 - 11/7/2013	Java GUI programming with WindowBuilder in Eclipse IDE A taste of Java with database Homework #4 is due Homework #5 is assigned	
12	11/12 - 11/14/2013	Java GUI programming with database Insert data into the database	
13	11/19 - 11/21/2013	Java GUI programming with database Retrieve and display data from the database Homework #5 is due Homework 6 is assigned	
14	11/26 - 11/28/2013	FALL BREAK - THANKSGIVING BREAK	

15	12/3/2013	Review for EXAM 2	
15	12/5/2013	EXAM 2 (PART I)	
16	12/10/2013	EXAM 2 (PART II) Homework 6 is due	

Grading Policy

The student's grade in the course will be based on the following items:

Homework assignments:	40%
Midterm exam:	25%
Final exam:	25%
Participation:	10%

The final letter grade will be determined as follows:

A+	96 - 100
A	≥ 90 and < 96
A-	≥ 86 and < 89

B+	≥ 81 and < 85
B	≥ 76 and < 80
B-	≥ 70 and < 75

C+	≥ 67 and < 69
C	≥ 64 and < 66
C-	≥ 60 and < 63

D+	≥ 57 and < 59
D	≥ 54 and < 56
D-	≥ 50 and < 53

F	Below 5
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Student Conduct and 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.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.

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, the instructor cannot drop or withdraw any student. The student must do the proper paperwork to ensure that he/she 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 Grades

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 goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is:

The University of Texas at Dallas, SU 22
PO Box 830688
Richardson, Texas 75083-0688
(972) 883-2098 (voice or TTY)

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, notetaking, or mobility assistance.

It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services 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.

The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and

completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

Off-Campus Instruction and Course Activities

Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at

http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm.

Additional information is available from the office of the school dean.

These descriptions and timelines are subject to change at the discretion of the Professor.