

New York University Tandon School of Engineering

Department of Computer Science and Engineering

Course Outline CS-UY 3913 Java and Web Design

Spring 2020

Professor Daniel Katz-Braunschweig

Th 6-8:50PM

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Office hours: M/W 12-1 or by appointment

Course Pre-requisites:

(CS-UY 2134 or CS-UY 1134) and (CS-UY 2124 or CS-UY 1124) (C- or better)

Course Description

Programmers familiar with C or C++ learn to develop Java applications and applets. This course teaches the syntax of the Java language, object-oriented programming in Java, creating graphical user interfaces (GIU) using the Java 2 Platform technology event model, Java exceptions, file input/output (I/O) using Java Foundation Class threads and networking.

Course Objectives

At the conclusion of this course, students should be able to write code in Java and develop applications using AWT/Swing, Databases and network sockets.

Course Structure

Students will be expected to read chapters from the required textbook prior to class and complete approximately 5 large homework assignments.

Readings

The required text for the course is: "Just Java 2 (6th Edition)" Peter van der Linden, (ISBN: 0-13-148211-4)

Textbooks are available from the NYU bookstore, Dibner, Dibner reserves and online ordering sources.

Course requirements

See chart below for required reading to be completed prior to class

Midterm 30%

The Midterm exam will include all material covered from the first 6 weeks of the course

Final Exam (date TBD by Tandon) 45%

The Final will cover all material in the course

Homework 25%

Homework will be issued, roughly every other week and will include programming as well as practical problems to be solved.

Lecture Num	Date	Topic	Book Chapter
1	1/30/2020	Introduction to Java	Ch 1 & 2
2	2/6/2020	Data Types, Loops, Branches, Arrays	Ch 3 & 4 & 6 & 9
3	2/13/2020	OOP and Exceptions	Ch 5 & 7 & 10
4	2/20/2020	Windowing, extending classes	Ch 8 & 20
5	2/27/2020	Interfaces and Nested classes	Ch 11 & 12
6	3/5/2020	Threads and Review	Ch 13 & 14
7	3/12/2020	Midterm Exam	
8	3/26/2020	Threads, Generics, Collections	Ch 13,14,15 & 16
9	4/2/2020	File IO	Ch 17 & 18
10	4/9/2020	Networking in Java	Ch 25
11	4/16/2020	JDBC	Ch 23&24
12	4/23/2020	(Virtual Meeting)	
13	4/30/2020	Graphics	Ch 22
14	5/7/2020	Android	handouts

Late Policy

Late homework will not be accepted under ANY circumstance; any homework which is not turned in on time will receive a grade of zero. Make-up examinations will be given only in the case of emergencies and will require prior approval and verification of the reason for the absence. Lateness on arrival to class will not be tolerated.

Moses Center Statement of Disability

If you are a student with a disability who is requesting accommodations, please contact New York University's Moses Center for Students with Disabilities (CSD) at 212-998-4980 or mosescsd@nyu.edu. You must be registered with CSD to receive accommodations. Information about the Moses Center can be found at

www.nyu.edu/csd. The Moses Center is located at 726 Broadway on the 3rd floor.

NYU School of Engineering Policies and Procedures on Academic Misconduct – complete Student Code of Conduct [here](#)

- A. Introduction: The School of Engineering encourages academic excellence in an environment that promotes honesty, integrity, and fairness, and students at the School of Engineering are expected to exhibit those qualities in their academic work. It is through the process of submitting their own work and receiving honest feedback on that work that students may progress academically. Any act of academic dishonesty is seen as an attack upon the School and will not be tolerated. Furthermore, those who breach the School's rules on academic integrity will be sanctioned under this Policy. Students are responsible for familiarizing themselves with the School's Policy on Academic Misconduct.
- B. Definition: Academic dishonesty may include misrepresentation, deception, dishonesty, or any act of falsification committed by a student to influence a grade or other academic evaluation. Academic dishonesty also includes intentionally damaging the academic work of others or assisting other students in acts of dishonesty. Common examples of academically dishonest behavior include, but are not limited to, the following:
 1. Cheating: intentionally using or attempting to use unauthorized notes, books, electronic media, or electronic communications in an exam; talking with fellow students or looking at another person's work during an exam; submitting work prepared in advance for an in-class examination; having someone take an exam for you or taking an exam for someone else; violating other rules governing the administration of examinations.
 2. Fabrication: including but not limited to, falsifying experimental data and/or citations.
 3. Plagiarism: intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise; failure to attribute direct quotations, paraphrases, or borrowed facts or information.
 4. Unauthorized collaboration: working together on work meant to be done individually.
 5. Duplicating work: presenting for grading the same work for more than one project or in more than one class, unless express and

prior permission has been received from the course instructor(s) or research adviser involved.

6. Forgery: altering any academic document, including, but not limited to, academic records, admissions materials, or medical excuses.

NYU School of Engineering Policies and Procedures on Excused Absences – complete policy [here](#)

- A. Introduction: An absence can be excused if you have missed no more than **10 days of school**. If an illness or special circumstance has caused you to miss more than two weeks of school, please refer to the section labeled Medical Leave of Absence.
- B. Students may request special accommodations for an absence to be excused in the following cases:
 1. Medical reasons
 2. Death in immediate family
 3. Personal qualified emergencies (documentation must be provided)
 4. Religious Expression or Practice

Deanna Rayment, deanna.rayment@nyu.edu, is the Coordinator of Student Advocacy, Compliance and Student Affairs and handles excused absences. She is located in 5 MTC, LC240C and can assist you should it become necessary.

NYU School of Engineering Academic Calendar – complete list [here](#).

The last day of the final exam period is 20 December 2019. Final exam dates for undergraduate courses will not be determined until later in the semester. If you have two final exams at the same time, report the conflict to your professors as soon as possible. Do not make any travel plans until the exam schedule is finalized.

Also, please pay attention to notable dates such as Add/Drop, Withdrawal, etc. For confirmation of dates or further information, please contact Susana: sgarcia@nyu.edu