

INSTRUCTOR: Cynthia Lee-Klawender

(<http://www.deanza.edu/faculty/leeklawendercynthia/>)

OFFICE HOURS, OFFICE: Held ONLY online in CCCConfer's ConferZoom (link given in Canvas) on Tuesdays and Fridays, 3:30 - 4:30 PM , Wednesdays and Thursdays, 11:30 AM -12:30 PM or by appointment

PHONE: (408) 864-8609, E-mail: LeeKlawenderCynthia@deanza.edu for questions, but submit assignments on Canvas

ADVISORY: CIS 27 (C++ Programming), or CIS 26A (C as a Second Language), or CIS 22B, or equivalent (prior programming knowledge expected!)

COURSE DESCRIPTION: This course introduces the Java programming language and environment. This includes Java primitive types, flow of control constructs, operators, objects & classes, interfaces, class libraries and packages. Also introduced are Java data structures, exception handling, and text I/O.

COURSE STUDENT LEARNING OUTCOMES:

- Read, analyze and explain intermediate level Java programs.
- Design solutions for intermediate level problems using appropriate design methodology incorporating object-oriented intermediate programming constructs.
- Create algorithms, code, document, debug, and test intermediate level Java programs.

TEXTBOOK: Introduction to Java Programming, Comprehensive Version, 10/E by Y. Daniel Liang ISBN-10: 0133761312 • ISBN-13: 9780133761313 ©2015 • Prentice Hall (You DON'T NEED MyProgrammingLab access, and you may get the 6th, 7th, 8th or 9th editions of Introduction to Java Programming by Liang)

LESSONS: Will be provided online on Canvas. You need to complete the orientation (see <http://deanza.edu/online-ed/> for links to the orientation for this course, then <https://deanza.instructure.com/> to get access to this course on Canvas).

CLASS NOTES: Assignments and announcements will be posted in Canvas (<https://deanza.instructure.com/>). You need to check this site at least 2 times per week!

COMPUTER LAB: You may use our computer lab or your own (or another) computer and compiler. If you don't use our computer lab, you need to have a Java compiler in order to do homework assignments (see lesson 1 in Canvas for where to get one). If you're enrolled in this class, you will automatically have an account in the ATC203 BUS/CS Division Open Computer Lab (if you're adding, add online in Admissions office, wait a few

hours before using the open lab). Bring a flash drive to the Computer Lab to back up your programs or remember to email to yourself.

COURSE OUTLINE (subject to change): This is an online course. However, the class will still meet for the midterm and final exam (see details on Canvas).

*Online meetings will be held about 6 times during the quarter. Exact dates and access are announced in Canvas.

	<u>Dates</u>	<u>Topics</u>	<u>Resources</u>
Week 1	Sep. 25 – Oct. 1	Introduction to Java Overview of Java Applications Java Basics	Canvas Lesson 1, Txtbk Ch. 1 Canvas Lesson 2, Txtbk Ch. 2
Week 2	Oct. 2 – 8	Java Control Structures Java Methods	Canvas Lesson 2, Txtbk Ch. 3 & 5 Canvas Lesson 3, Txtbk Ch. 4 & 6
Week 3	Oct. 9 – 15	Arrays, Packages Introduction to Object-Oriented Programming and Java Classes	Canvas Lesson 4, Txtbk Ch. 7 & 8 Canvas Lesson 5, Txtbk Ch. 9 & 10
Week 4	Oct. 16 – 22	Java Classes (continued) Class Features	Canvas Lesson 5, Txtbk Ch. 10
Week 5	Oct. 23 – 29	Strings & StringBuilders/Stringbuffers	Canvas Lesson s 6, Txtbk Ch. 4, 10.10 & 10.11
Week 6	Oct. 30 – Nov. 5	Inheritance	Canvas Lesson 7, Txtbk Ch. 11
Week 7	Nov. 6 – 12	MIDTERM (Wed., Nov. 8, 7:30-9:30 PM, in MLC 103)	on Txtbk Ch. 1-10
Week 8	Nov. 13 – 19	Object Class - Abstract classes & Interfaces Exception Handling	Canvas Lesson 7, Txtbk Ch. 13 Canvas Lesson 8, Txtbk Ch. 12
Week 9	Nov. 20 – 26	Text I/O, Inner Classes Generics Lists, Stacks, Queues	Canvas Lesson 9, Txtbk Ch. 12, 15.4 Canvas Lesson 10, Txtbk Ch. 19 Canvas Lesson 10, Txtbk Ch. 20 & 24
Week 10	Nov. 27 – Dec. 3	Set & Maps	Canvas Lesson 11, Txtbk Ch. 21
Week 11	Dec. 4 – 10	Trees, Hash Tables	Canvas Lesson 11, Txtbk Ch. 25, 27
Week 12	Wed., Dec. 13	Final Exam (6:15-8:15 PM, room TBA)	Comprehensive

EVALUATION:	Prog. Assignments (7)	28% (Each assn. = 4%)
	Participation	12%(inc. meetings*, exercises)
	Quizzes	10%
	Midterm+ Final	<u>50%</u> (Each test = 25%)
		100%

MAKE-UP TESTS: NO MAKE-UP TESTS WILL BE GIVEN! Please notify the instructor ASAP if you know you will be missing a test.

EXTRA CREDIT:

Extra credit problems are given and are to be submitted in an online program called CodeLab (at www.turingscraft.com , see instructions on Canvas). The problems are assigned with each programming homework assignment, but are due by the due dates shown in CodeLab. You may complete none or some or all of the assigned problems. Only the correct ones will count.

PROGRAMMING HOMEWORK GRADING: Each will be graded as follows:

- 37 points: Does the program correctly & completely solve the problem?
- 5 points: Is the listing commented? Is the UML included (if required)? Will I understand what the program is doing? Is the program indented properly? Is the program efficient?
- 8 points: ON TIME! (1 point deducted starting day after due date + every other day late--CAN'T TURN IN 3 WEEKS after due date!)

50 points possible (for each assignment)

NOTE: NO ASSIGNMENTS WILL BE ACCEPTED AFTER **FRI., Dec. 15, 11:55 PM!**

WITHDRAWING FROM CLASS: I will not automatically drop anyone from class, even if you stop participating. If you wish to discontinue the class, you must go the Admissions Office yourself to officially drop from the class or you may receive a grade of 'F'.

GRADING BREAKDOWN (adding each score/max-points * weight):

A	Total Percent >=	90.5
A-	87.5 <= Total % <	90.5
B+	84.5 <= Total % <	87.5
B	80.5 <= Total % <	84.5
B-	77.5 <= Total% <	80.5
C+	74.5 <= Total% <	77.5
C	69.5 <= Total% <	74.5
D+	65.5 <= Total% <	69.5
D	60.5 <= Total% <	65.5
D-	57.5 <= Total% <	60.5
F	Total Percent <	57.5