



# ITP-109 Introduction to Java Programming

2018 Fall with Barrett Koster

<b>Catalog Description</b>	Learn the fundamental principles of programming and object-oriented software design using Java in order to solve real-world problems.								
<b>Objective</b>	This course is intended to teach the basics of programming, the foundations of object-oriented programming, and the process of building a project in a modular fashion using the Java programming language.								
<b>Prerequisites</b>	None. This course is intended for non-programmers.								
<b>Instructor</b>	Dr. Barrett Koster , bkoster@usc.edu								
<b>Office Hours</b>	OHE 530 G, MTWH 11-1								
<b>Class logistics</b>	<table border="1"><thead><tr><th>section</th><th>hours</th><th>room</th><th>TAs</th></tr></thead><tbody><tr><td>31902</td><td>TH 14:00-15:20</td><td>GFS-207</td><td>David dgarry@usc.edu, Sushmita manikans@usc.edu</td></tr></tbody></table>	section	hours	room	TAs	31902	TH 14:00-15:20	GFS-207	David dgarry@usc.edu, Sushmita manikans@usc.edu
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<b>Course Structure</b>	The class meets for one hour and 20 minutes twice a week for a total of 2 hours and 40 minutes. These sessions include lectures and hands-on graded labs. Two exams are given during the semester and held during the class meetings. Weekly assignments and a final project are completed outside of class time. The textbook includes on-line activities that are part of the final grade. Access to a laptop computer during lecture and lab is required. ITP does have a laptop loaner policy for students enrolled who do not have a personal laptop. All course material is available on Blackboard at <a href="http://blackboard.usc.edu">http://blackboard.usc.edu</a> .								
<b>Required Text</b>	zyBooks at <a href="http://zybooks.zyante.com">http://zybooks.zyante.com</a> or <a href="https://www.zybooks.com">https://www.zybooks.com</a> . Sign up and enter code USCITP109KosterFall2018. There was a glitch, but the cost should be \$70. This book is required (and it's excellent).								
<b>Grading</b>	The following percentage breakdown is used to determine the final grade. <table border="1"><tr><td>class participation</td><td>5%</td></tr></table>	class participation	5%						
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labs	10%
book activities	10%
assignments	35%
exam #1	15%
exam #2	15%
final project	10%

**Homework**

The assignments will be posted on Blackboard under the "Assignments" section. Each assignment will include instructions, a due time and date, and a link for electronic submission. Assignments must be submitted using this link. All assignments will be digitally submitted through Blackboard except where explicitly specified. Do not email homework to the lecturer or lab assistant.

It is your responsibility to submit assignments on or before the due date and time. Penalties for lateness are :

lateness	penalty
0 - 24 hours	-15%
24 - 48 hours	-30%
48 - 72 hours	-50%
more than 3 days	-100%

Each student will be allowed ONE 24 hour late assignment for 'free', which may not be used on final project, and you must indicate that you are using your free late in the comments when you submit the assignment.

If our system loses your assignment, we'll ask you for it again, so keep copies. ITP is not responsible for any work lost.

**Policies**

Make-up exams and forgiveness of late-penalties will be given **only** for documented medical or family emergencies.

Attendance will be taken during each class. Any student missing class should post a note on Piazza, including date missing class, reason for missing class, and class section. I will typically excuse you for university events that conflict with class (and emergencies). I expect professional attitude here. I'm not running a jail, but people who don't show up for class don't tend to pass. Note: falsifying the attendance record is **far worse** offense than blowing off a class or two. Do not game the attendance system or come to class just to check in and then leave.

ITP offers open lab use for all students enrolled in ITP classes. In addition, ITP has a laptop loaner program for students who may need temporary use of a laptop in order to complete an assignment.

ITP reserves the right to record classroom spaces and to use recorded material if necessary for academic integrity cases.

<p><b>adding the course after a week</b></p>	<p>Per university policy, students are allowed to add the course until the end of week 3. However, this course is cumulative, so any student adding this course after week 1 should email the instructor immediately to make a plan for learning missed material and completion of assignments (which are required).</p>
<p><b>Academic Integrity</b></p>	<p>USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one's own academic work from misuse by others as well as to avoid using another's work as one's own. All students are expected to understand and abide by these principles.</p> <p>Plagiarism -- presenting someone else's ideas as your own, either verbatim or recast in your own words -- is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in SCampus in Part B, Section 11, "Behavior Violating University Standards" <a href="https://policy.usc.edu/scampus-part-b/">https://policy.usc.edu/scampus-part-b/</a> . Other forms of academic dishonesty are equally unacceptable. See additional information in SCampus and university policies on scientific misconduct, <a href="http://policy.usc.edu/scientific-misconduct">http://policy.usc.edu/scientific-misconduct</a>.</p> <p>Academic integrity tutorials can be found at <a href="https://libraries.usc.edu/research/reference-tutorials">https://libraries.usc.edu/research/reference-tutorials</a></p> <p>Assignments and projects in introductory computer programming course are different from those in some other types of courses. Students may NOT collaborate, work together, share code, or in any way exchange solutions for assignments and projects. All assignments are analyzed by software that looks for similarity. Any sharing of ideas or code will be considered a violation of academic integrity (cheating); an SJACS report will be filed with the recommended penalty of an F in the course. Do not share your code with anyone else in this or a future section of the course, as allowing someone else to copy your code carries the same penalty as copying the code yourself.</p> <p>If the instructor, a grader, or a lab assistant suspects you of academic dishonesty, it has to be reported to SJACS. Do not share lab assignments with another student. Do not submit another student's work as your own. Do not look at other students' papers during exams. Do not leave the room during an exam without permission. Do not cheat! As Trojans, we are faithful, scholarly, skillful, courageous, and ambitious.</p>
<p><b>Disability Services</b></p>	<p>The Office of Disability Services and Programs, information at <a href="http://dsp.usc.edu">http://dsp.usc.edu</a> provides certification for students with disabilities and helps arrange the relevant accommodations. Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP.</p> <p>Please be sure the letter is delivered to your course instructor as early in the semester as possible. If you need accommodations for an exam, the form needs to be given to the instructor at least two weeks before the exam, but preferably at the beginning the semester.</p>

<b>Emergency Preparedness</b>	If an officially declared emergency makes travel to campus infeasible, USC Emergency Information, information at <a href="http://emergency.usc.edu/">http://emergency.usc.edu/</a> , will provide safety and other updates, including ways in which instruction will be continued by means of blackboard, teleconferencing, and other technology.
<b>Support Systems</b>	<p>Discrimination, sexual assault, and harassment are not tolerated by the university.</p> <p>Student Counseling Services (SCS) - (213) 740-7711 -- 24/7 on call Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention. <a href="https://engemannshc.usc.edu/counseling/">https://engemannshc.usc.edu/counseling/</a></p> <p>National Suicide Prevention Lifeline - 1-800-273-8255 Provides free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week. <a href="http://www.suicidepreventionlifeline.org">http://www.suicidepreventionlifeline.org</a></p> <p>Relationship and Sexual Violence Prevention Services (RSVP) - (213) 740-4900 - 24/7 on call Free and confidential therapy services, workshops, and training for situations related to gender-based harm. <a href="https://engemannshc.usc.edu/rsvp/">https://engemannshc.usc.edu/rsvp/</a></p> <p>Sexual Assault Resource Center For more information about how to get help or help a survivor, rights, reporting options, and additional resources, visit the website: <a href="http://sarc.usc.edu/">http://sarc.usc.edu/</a></p> <p>Office of Equity and Diversity (OED)/Title IX Compliance -- (213) 740-5086 Works with faculty, staff, visitors, applicants, and students around issues of protected class. <a href="https://equity.usc.edu/">https://equity.usc.edu/</a></p> <p>Bias Assessment Response and Support Incidents of bias, hate crimes and microaggressions need to be reported allowing for appropriate investigation and response. <a href="https://studentaffairs.usc.edu/biasassessment-response-support/">https://studentaffairs.usc.edu/biasassessment-response-support/</a></p> <p>Student Support and Advocacy -- (213) 821-4710 Assists students and families in resolving complex issues adversely affecting their success as a student EX: personal, financial, and academic. <a href="https://studentaffairs.usc.edu/ssa/">https://studentaffairs.usc.edu/ssa/</a></p> <p>Diversity at USC Information on events, programs and training, the Diversity Task Force (including representatives for each school), chronology, participation, and various resources for students. <a href="https://diversity.usc.edu/">https://diversity.usc.edu/</a></p> <p>USC Emergency Information Provides safety and other updates, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible, <a href="http://emergency.usc.edu">http://emergency.usc.edu</a></p> <p>USC Department of Public Safety -- 213-740-4321 (UPC) and 323-442-1000 (HSC) for 24-hour emergency assistance or to report a crime. Provides overall safety to USC community. <a href="http://dps.usc.edu">http://dps.usc.edu</a> .</p>

## schedule (subject to change)

week	Tuesday	agenda	Thursday	agenda
1	Aug 21	course overview. ch1 (zyBooks) introduction to computers, problem solving, and programming. HW00: tool installation.	Aug 23	1st program in BlueJ to make Java object. HW01: Bio.
2	Aug 28	ch2 variables. Scanner - input	Aug 30	ch3 Primitive data types. preview Classes. HW02: Bill.
3	Sep 4	ch4 classes.	Sep 6	ch5 Strings, Random numbers. HW03: Medical Record.
4	Sep 11	ch6 Branching.	Sep 13	ch6 more branching. HW04: Lotto (was soda machine).
5	Sep 18	ch7 While Loops.	Sep 20	ch 7 more while loops. HW05: Mortgage (was PlaneTickets).
6	Sep 25	ch8 For Loops.	Sep 27	ch8 more for loops. ch9 more on classes?
7	Oct 2	review	Oct 4	exam 1
8	Oct 9	ch10 ArrayLists.	Oct 11	ch10 more ArrayLists. HW06: Quizzle (or Marriage game?).
9	Oct 16	ch11 Arrays	Oct 18	ch11 more Arrays. HW07: PancakeNumber (was Array Game).
10	Oct 23	ch12 Inheritance.	Oct 25	ch12 more inheritance. HW08: Knapsack (was Party) (or DandDGame?)
11	Oct 30	Ch13 Polymorphism	Nov 1	ch13 more polymorphism.
12	Nov 6	review	Nov 8	exam 2
13	Nov 13	ch14 GUI events.	Nov 15	ch15 GUI drawing.
14	Nov 20	animation . Project: Mancala (new).	Nov 22	ThanksGiving, no class
15	Nov 27	2D arrays	Nov 29	simulation
final	Dec 5	due at noon, topic: Mancala (was PetZoo)		

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