

Catalogue Description	Learn the fundamental principles of programming and object-oriented software design using Java in order to solve real-world problems.																				
Objective	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.																				
Prerequisites	None. This class is intended for non-programmers.																				
Instructor	Kim Peters, Ph.D. (kypeters@usc.edu)																				
Office Hours	TuTh 2:00 – 3:00pm (OHE 330C)																				
Lab Assistants	Refer to contacts on Blackboard.																				
Course Hours	TuTh 11:00 - 12:20 pm (VKC 100)																				
Course Structure	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 learning 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 computer is recommended, although ITP holds open lab hours with computers. All course material is available on Blackboard at http://blackboard.usc.edu .																				
Required Textbook	zyBooks at http://zybooks.zyante.com . Sign up and enter code USCITP109Fall2017 . Cost is \$67. This book is required.																				
Grading	<p>The following percentage breakdown is used to determine the final grade.</p> <table border="0"> <tr> <td>Class Participation</td> <td>5%</td> </tr> <tr> <td>Labs</td> <td>10%</td> </tr> <tr> <td>Book Activities</td> <td>10%</td> </tr> <tr> <td>Assignments (weighted proportionally)</td> <td>35%</td> </tr> <tr> <td>Exam #1</td> <td>15%</td> </tr> <tr> <td>Exam #2</td> <td>15%</td> </tr> <tr> <td>Final Project</td> <td>10%</td> </tr> <tr> <td>TOTAL POSSIBLE</td> <td>100%</td> </tr> </table>	Class Participation	5%	Labs	10%	Book Activities	10%	Assignments (weighted proportionally)	35%	Exam #1	15%	Exam #2	15%	Final Project	10%	TOTAL POSSIBLE	100%				
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Homework The assignments will be posted on Blackboard under the “Assignments” section. Each assignment will include instructions, a due date, and a link for electronic submission. Assignments must be submitted using this link. All assignments will be digitally submitted through Blackboard except where specifically specified. Do not email them to the lecturer or lab assistant.

It is your responsibility to submit assignments **on or before** the due date. Assignments turned in up to 24 hours late will have 15% of the total points deducted from the graded score. Assignments turned in 24-48 hours late will have 30% of the total points deducted from the graded score. Assignments turned in 48-72 hours will have 50% of the total points deducted from the graded score. After three days, submissions will **not** be accepted and you will receive a 0. It is the responsibility of the student to contact the grader when posting late projects. 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.

You are required to keep a copy of all of your assignments. You may save your assignments using a USB flash drive or a website such as <http://www.dropbox.com>. If available, you will be given one USB flash drive from ITP. You will not be able to save your work on the ITP lab computers. ITP is not responsible for any work lost.

Policies No make-up exams (except for documented medical or family emergencies) will be offered. Final projects must be submitted on or before the due date, any late assignments will not be accepted (except for documented medical or family emergencies)

A roster will be passed around the room during each lecture session. Please sign by your name for the appropriate week. Do not sign in for another student; doing so is an academic integrity violation.

ITP offers open lab use for all students enrolled in ITP classes. These open labs are held beginning the second week of classes through the last week of classes. Hours are listed at <http://itp.usc.edu/labs/>. The open labs will not have a lab assistant for this specific class. These lab times are there in case you do not have a computer or need extra time to complete an assignment.

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

Incomplete and Missing Grades University Grading Handbook, located at <http://www.usc.edu/dept/ARR/grades/gradinghandbook/index.html>, contains details on incomplete and missing grades, as well as other grading concerns.

A grade of Missing Grade (MG) should only be assigned in unique or unusual situations such as for those cases in which a student does not complete work for the course before the semester ends. All missing grades must be resolved by the instructor through the Correction of Grade Process. One calendar year is allowed to resolve a MG. If an MG is not resolved [within] one year, the grade is changed to

UW (Unofficial Withdrawal) and will be calculated into the grade point average as zero grade points.

A grade of Incomplete (IN) is assigned when work is not completed because of documented illness or other 'emergency' occurring **after the twelfth week of the semester** (or 12th week equivalency for any course scheduled for less than 15 weeks).

Academic Integrity

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.

SCampus is USC's Student Guide to Policies and Conduct Code and can be found at <http://scampus.usc.edu>. Section 11 contains the Behavior Violating University Standards and Appropriate Sanctions and can be found at <http://scampus.usc.edu/1100-behavior-violating-university-standards-and-appropriate-sanctions/>. Students will be referred to the Office of Student Judicial Affairs and Community Standards (SJACS) for further review, should there be any suspicion of academic dishonesty. The Review process can be found at <http://www.usc.edu/student-affairs/SJACS/>.

An academic integrity tutorial can be found at http://www.usc.edu/libraries/about/reference/tutorials/academic_integrity/index.php

Assignments and projects in 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 you copying the code yourself.

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.**

Support Systems	<p>Discrimination, sexual assault, and harassment are not tolerated by the university. You are encouraged to report any incidents to the <i>Office of Equity and Diversity</i> at http://equity.usc.edu/ or to the <i>Department of Public Safety</i> at http://capsnet.usc.edu/departement/departement-public-safety/online-forms/contact-us. This is important for the safety of the whole USC community. Another member of the university community – such as a friend, classmate, advisor, or faculty member – can help initiate the report, or can initiate the report on behalf of another person. <i>The Center for Women and Men</i>, information at http://www.usc.edu/student-affairs/cwm/, provides 24/7 confidential support. The sexual assault resource center webpage at sarc.usc.edu describes reporting options and other resources.</p>
Disability Services	<p><i>The Office of Disability Services and Programs</i>, information at http://sait.usc.edu/academicsupport/centerprograms/dsp/home_index.html, 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. 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>
Emergency Preparedness	<p>If an officially declared emergency makes travel to campus infeasible, <i>USC Emergency Information</i>, information at http://emergency.usc.edu/, will provide safety and other updates, including ways in which instruction will be continued by means of blackboard, teleconferencing, and other technology. Additional information about <i>Campus Safety and Emergency Preparedness</i> can be found at http://preparedness.usc.edu.</p>

Course Outline*		
Week	Topics	Activities/Assignments
1	Course overview; introduction to computers, problem solving, and programming	zyBooks: Chapters 1-2 HW0 & HW1: Installation & intro program
	First program using BlueJ to make a Java object	
2	Programming in the Small. Designing classes.	zyBooks: Chapters 3-4 HW2: Basic input & output
3	Designing Classes.	zyBooks: Chapter 4 HW3: Design a class
	Constructors, Accessors, and Mutators	
4	Abstract data types; Java API	zyBooks: Chapter 5 HW4: Using String class
	String & Random. Hands-on learning lab	
5	Conditionals and Switches	zyBooks: Chapter 6 HW5: Using conditionals
	hands-on learning lab	
6	While and do-while loops	zyBooks: Chapter 7 HW6: Using loops
7	For loops. Practice with classes	zyBooks: Chapter 8
	Putting it all together	
8	Review	Review Chapters 1 - 9
	Exam #1	
9	ArrayLists	zyBooks: Chapter 10 HW7: Using arraylists
	ArrayLists; hands-on learning lab	
10	ArrayList/ Review	zyBooks: Chapter 11 HW8: Using arrays
	Arrays	
11	Arrays; hands-on learning lab	zyBooks: Chapter 12 HW9: Using inheritance
	Classes, Methods, Inheritance	
12	Inheritance; hands-on learning lab	zyBooks: Chapter 13 HW10: OO Programming
	Polymorphism, Abstract classes & inheritance	
13	Interfaces; hands-on learning lab	Review Chapters 1 - 13
	Review	
14	Exam #2	zyBooks: Chapter 14-15 (Opt) Farrell Chapter 15 (Opt)
	GUI programming	
15	GUI programming	Final Project Assigned
	GUI programming	
Finals	Final Project due Saturday December 9, 2017 at 11:59 pm	

*** This course outline is for planning purposes and is subject to change.**