Introduction to Java Programming
ITP 109 (2 Units)
Fall 2017

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
Kendra Walther (kwalther@usc.edu)

Office Hours
Listed on Blackboard under Contacts.

Lab Assistants
Listed on Blackboard under Contacts.

Course Hours
TuTh 12:30 pm – 1:50 pm | TTh 3:30 pm – 4:50 pm.

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 strongly recommended, although ITP holds open lab hours with computers. All course material is available on Blackboard at http://blackboard.usc.edu.

Required Textbook

Grading
The following percentage breakdown is used to determine the final grade.
Class Participation 5%
Book Activities 10%
Assignments (weighted proportionally) 40%
Exam #1 15%
Exam #2 15%
Final Project 15%
TOTAL POSSIBLE 100%

Grading Scale
The following scale is used to determine the letter grade:
93% and above A
90 - 92% A-
87 - 89% B+
83 - 86% B
80 - 82% B-
77 - 79% C+
73 - 76% C
70 - 72% C-
69 - 65% D
64 and below F
If you are taking the class with a grade of P/NP, you must earn a grade of 70% or higher in order to receive a P. Final grade percentages are calculated to two decimal places and rounded to hundredths. For example, 89.99 is a B+ while 89.995 is rounded to 90 and thus an A-.
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. Attendance in class is part of participation, and any student missing class should post a note on Piazza, including date missing class, reason for missing class, and class section.

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/. TA hours and locations will be listed on Blackboard and on Piazza.

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](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/](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/](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](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

Discrimination, sexual assault, and harassment are not tolerated by the university. You are encouraged to report any incidents to the Office of Equity and Diversity at [http://equity.usc.edu/](http://equity.usc.edu/) or to the Department of Public Safety at [http://capsnet.usc.edu/department/department-public-safety/online-forms/contact-us](http://capsnet.usc.edu/department/department-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. The Center for Women and Men, information at [http://www.usc.edu/student-affairs/cwm](http://www.usc.edu/student-affairs/cwm), provides 24/7 confidential support. The sexual assault resource center webpage at [sarc.usc.edu](http://sarc.usc.edu) describes reporting options and other resources.

### Disability Services

The Office of Disability Services and Programs, information at [http://sait.usc.edu/academicsupport/centerprograms/dsp/home_index.html](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 of the semester.

### Emergency Preparedness

If an officially declared emergency makes travel to campus infeasible, USC Emergency Information, information at [http://emergency.usc.edu/](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 Campus Safety and Emergency Preparedness can be found at [http://preparedness.usc.edu](http://preparedness.usc.edu).

### Adding the course after week 1

Per university policy, students are allowed to add the course until the end of week 3. Any students wishing to add the course should plan on attending the course from the beginning of the semester. All missed assignments for adding late will be required to be made up within 2 days of adding the course so that students are not further behind. Upon adding the course after week 1, the student should email the instructor immediately to make sure there is a plan for completion of work and learning missed materials.
<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Activities/Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Course overview; introduction to computers, problem solving, and programming</td>
<td>zyBooks: Chapters 1-3 HW0 &amp; HW1: Installation &amp; intro program</td>
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<tr>
<td></td>
<td>First program using BlueJ to make a Java object</td>
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<td>2</td>
<td>Programming in the Small. Designing classes.</td>
<td>zyBooks: Chapters 1-4 HW2: Basic input &amp; output</td>
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<tr>
<td>3</td>
<td>Designing Classes. Constructors. Accessors. Mutators</td>
<td>zyBooks: Chapter 5 HW3: Design a class</td>
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<td>4</td>
<td>Abstract data types; Java API String &amp; Random. Hands-on learning lab</td>
<td>zyBooks: Chapter 6 HW4: Using String class</td>
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<td>5</td>
<td>Conditionals and Switches hands-on learning lab</td>
<td>zyBooks: Chapter 7 HW5: Using conditionals</td>
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<td>6</td>
<td>While and do-while loops</td>
<td>zyBooks: Chapter 8 HW6: Using loops</td>
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<td>7</td>
<td>For loops. Practice with classes Putting it all together</td>
<td>zyBooks: Chapter 9</td>
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<tr>
<td>8</td>
<td>Review</td>
<td>Review Chapters 1 - 10</td>
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<tr>
<td>9</td>
<td>Exam #1</td>
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<tr>
<td>10</td>
<td>Arrays; hands-on learning lab</td>
<td>zyBooks: Chapter 12 HW8: Using arrays</td>
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<tr>
<td>11</td>
<td>Arrays; hands-on learning lab Classes, Methods, Inheritance</td>
<td>zyBooks: Chapter 13 HW9: Using inheritance</td>
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<tr>
<td>12</td>
<td>Inheritance; hands-on learning lab Polymorphism, Abstract classes &amp; inheritance</td>
<td>zyBooks: Chapter 14 HW10: OO Programming</td>
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<tr>
<td>13</td>
<td>Interfaces; hands-on learning lab Review</td>
<td>Review Chapters 1 - 14</td>
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<tr>
<td>14</td>
<td>Exam #2 GUI programming</td>
<td>zyBooks: Chapter 15-16 (Opt) Farrell Chapter 15 (Opt)</td>
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<tr>
<td>15</td>
<td>GUI programming GUI programming</td>
<td>Final Project Assigned</td>
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<tr>
<td>Finals</td>
<td>Final Project due Saturday December 9, 2017 at 11:59 pm</td>
<td></td>
</tr>
</tbody>
</table>

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