

CSC 143

Introduction to Computer Programming

Fall 2011

Lecture Time MW 7:30 – 8:20 am
Location RS 202

Lab Time T 7:30 – 9:10 am
Location LW 220

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Office Hours MW 8:30 – 9:30
 Anytime during lab

Text:

Anderson and Franceschi. *Java Illuminated: An Active Learning Approach, 3rd Edition*. Jones and Bartlett 2012. We will cover chapters 1-8 in this class. The same text is used for CSC 153.

Course Objectives:

- To introduce students to general computer programming concepts and environments. Specifically, we will be using the Java language, with the jGrasp integrated design environment.
- To present the syntax of the object-oriented computer programming language Java, and to prepare the student to write simple programs in preparation for more advanced computer science courses. This course covers arithmetic operations, class use, applications and applets, simple graphics, if statements, loops, class design, and arrays.

Class Learning Outcomes: Students will be able to write correct and robust software. Students will understand the interaction between hardware and software. Students will be able to apply their technical knowledge to solve problems. Students will be comfortable using technology to solve problems.

Course Organization:

Lectures: Cover the highlights of chapters assigned – **not** a substitute for reading.

Homework: Homework will consist of problems from the book, as well as programming assignments. Homework problems may be discussed among students, but no written notes exchanged. Each student must turn in his/her own work. If homework assignments appear too similar, I will split the points awarded between the individuals involved. **Homework is due at the beginning of class.** Homework turned in by the beginning of the next class period will be accepted with a 25% penalty.

Quizzes: 2 written quizzes will take place during the semester. They will take the last 20 minutes of class and will test lecture and lab material covered up to that point.

Midterm: The Midterm will cover lecture as well as lab material from the first 4 chapters of the book. This exam will be composed of a written portion and a practical programming portion.

Students missing the midterm exam for a school function must arrange to take the exam in advance. The midterm is scheduled for **October 10 & 11**.

Labs: In most cases, lab assignments should be completed during the assigned lab time. At the latest, they are due at the beginning of the lab following the lab period on which the assignment was given. Discussion of lab assignments is allowed. However, each individual must turn in his/her own work.

Final Exam: The final exam will be comprehensive, and contain both written and programming portions.

Final is 8:00 am on Thursday – note that this is based on the lab time!

Attendance:

As stated in the school catalog, “Whenever the number of accumulated absences in a class, for any cause, exceeds ten percent of classes, the faculty member sends a written report to the Associate Provost for Academic Administration which may result in de-enrollment. If more than 20% is reported as missed, the student may automatically be de-enrolled. If the date of de-enrollment is past the last date to withdraw from a class, the student will be assigned a grade of “F” or “NC”.

Grading:

Homework	10%
Labs	30%
Quizzes 1&2	15%
Midterm	20%
Final Exam	25%

Final grades will be determined as follows:

100-93%	A	80-82%	B-	67-69%	D+
90-92%	A-	77-79%	C+	63-66%	D
87-89%	B+	73-76%	C	60-62%	D-
83-86%	B	70-72%	C-	0-59%	F

Attendance:

Attendance is expected at each class section. In the event of an absence you are responsible for the material covered in class and the assignments given that day. See the Point Loma Nazarene University Catalog for a statement of the university’s policy with respect to attendance. Remember that missing more than one and a half week’s worth of classes can result in a failing grade.

Academic Accommodations:

While all students are expected to meet the minimum academic standards for completion of this course as established by the instructor, students with disabilities may require academic accommodations. At Point Loma Nazarene University, students requesting academic accommodations must file documentation with the Disability Resource Center (DRC), located in the Bond Academic Center. Once the student files documentation, the Disability Resource Center will contact the student’s instructors and provide written recommendations for reasonable and appropriate accommodations to meet the individual needs of the student. This policy assists the University in its commitment to full compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities (ADA) Act of 1990, and ADA Amendments Act of 2008, all of which prohibit discrimination against students with disabilities and guarantees all qualified students equal access to and benefits of PLNU programs and activities. **Students with learning disabilities who may need accommodations should discuss options with the instructor during the first two weeks of class.**

Class Enrollment:

It is the student’s responsibility to maintain his/her class schedule. Should the need arise to drop this course (personal emergencies, poor performance, etc.), the student has the responsibility to follow

through (provided the drop date meets the stated calendar deadline established by the university), not the instructor. Simply ceasing to attend this course or failing to follow through to arrange for a change of registration (drop/add) may easily result in a grade of F on the official transcript.

Tentative:

Week	Monday	Tuesday	Wednesday
1 - Aug. 29		Jgrasp Tutorial	Intro: 1.3-1.5
2 - Sept. 5	Labor Day	Lab1	Syllabus, Data Types: 2.1-2.2
3 - Sept. 12	Data Types & Operators: 2.2-2.4	Lab 2	Using Classes: 3.1-3.5
4 - Sept. 19	3.6-3.7	Lab 3	3.8-3.9 Quiz 1
5 - Sept. 26	3.10-3.13	Lab 4	3.14-3.16
6 - Oct. 3	Chapter 4	Lab 5	If/Else: 5.1-5.3
7 - Oct. 10	Written Midterm	Programming Midterm	If/Else: 5.4-5.6
8 - Oct. 17	Comparisons & Switch Statements: 5.8-5.11	Lab 6	Loops: 6.1-6.3.1
9 - Oct. 24	Loops: 6.3.2-6.4.4, 6.5-6.7	Lab 7	Animation: 6.4.5
10 - Oct. 31	6.8-6.10	Lab 8	Loops Quiz 2
11 - Nov. 7	Nested Loops: 6.11	Lab 9	User-Defined Classes: 7.1-7.4
12 - Nov. 14	User-Defined Classes: 7.5-7.10	Lab 10	Static Class Members: 7.11
13 - Nov. 21	Graphical Objects: 7.12	Lab 11	Thanksgiving Break
14 - Nov. 28	Arrays: 8.1-8.3.4	Lab 12	Arrays: 8.3.5-8.3.7
15 - Dec. 5	Arrays: 8.5-8.6	Lab 13	Final Review