

CSC 143: Introduction to Computer Programming

Fall 2014

Instructor:

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Office hours:

Monday-Friday 8:30-10:00
Tuesday, Thursday 1:00-3:00

Plus anytime during labs

Text:

Anderson and Franceschi. *Java 6 Illuminated: An Active Learning Approach 3rd Edition*. Jones and Bartlett 2012. We will cover most of chapters 1-9 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. Students will develop programs from algorithm design to testing.
- 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 and for the Computational Science minor. This course covers basic data types and associated operations, use and theory of objects, graphics, animations, conditional statements, arrays, and loops. Students will gain experience writing programs in many contexts including science, business, and mathematics.

Class Learning Outcomes: Students will be able to write correct and robust software. Students will analyze the interaction between hardware and software. Students will be able to apply their technical knowledge to solve problems. Students will collaborate effectively in teams.

Course Organization:

This course will be taught in a hybrid format. We will meet together during lecture time on Thursday only, and each section will meet for their labs 2 times a week either on Tuesday/Thursday, or Wednesday/Friday. Please note that

Homework: Each week, students will get an online introduction to the material, be responsible for reading a section of the text, and taking quizzes over that text. All quizzes must be taken by midnight on the Wednesday prior to the Thursday class meeting.

Tuesday: Although there will be no formal meeting on Tuesdays, I anticipate being available in the classroom for people who might be having problems with the homework. This is an optional session, and its necessity will be re-evaluated mid-semester.

Thursday meeting: Thursday will be a time to answer questions on the reading for that week, and to see additional examples and work problems based on the reading. Most weeks there will also be a formal presentation of some of the more complex material. Student versions of the lecture slides can be obtained from: canvas.pointloma.edu. All written exams will also take place during a Thursday session.

Exams: During the course of the semester, you will have 5 exams – 2 programming exams and 3 written exams (not including the final). Programming exams will take place during your lab session. Exams are as follows:

Date	Type	Time	Covers	% of midterm grade
October 2	Written	25 minutes	Chapters 1-4	10
October 7/8	Programming	25 minutes	Labs to this point	10

October 30	Written	Entire period	Chapters 1-6.4	35
October 30/31	Programming	Entire lab	Labs to this point	35
November 20	Written	25 minutes	6.3-8.3.7	10

Labs: Labs are due at the beginning of the last lab day (for your section) of the week after they are assigned (Thursday or Friday). They will be accepted on Tuesday or Wednesday of the following week at a 15% penalty. **In either case, to be considered “on time” they must be signed off within 20 minutes of the start of the lab period.** It is in your best interest, then, to get them signed off prior to the start of the lab. You may get your lab signed off by any lab assistant whether he/she assists for your lab section or the other lab section. Lab assistants will be in the virus lab during various times of the week.

In general, **labs will not be accepted any later.** Occasionally you will be given a longer period of time to complete the lab as noted on the assignment sheet. Discussion of lab assignments is allowed, however, **each individual must turn in his/her own work.**

To receive full credit on a lab your lab must:

- Be original work
- Be well-documented (comments)
- Be well-formatted (indentation and white space)
- Use meaningful identifiers
- Work correctly for all test cases run by Dr. Carter or the Lab Assistant
 - In some cases, you will not get full credit if they do not work the first time checked

Even if your lab doesn't work (or even compile) you can get partial credit. **Turn in whatever you have!**

Final Exam: The final exam will be comprehensive, and contain both written and programming portions. **Programming final is at 10:30 on the Thursday of finals week. The written final will be during the last lecture period.** The final exam date and time is set by the university at the beginning of the semester and may not be changed by the instructor. Only in the case that a student is required to take three exams during the same day of finals week is an instructor authorized to change the exam date and time for that particular student.

Grading:

Online quizzes	10%	Exams	25%
Labs	35%	Final Exam	30%

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 session. In the event of an absence you are responsible for the material covered in class and the assignments given that day. Here is the university's stated policy on attendance:

Regular and punctual attendance at all classes in which a student is registered is considered essential to optimum academic achievement. Therefore, regular attendance and participation in each course are minimal requirements to be met. There are no allowed or excused absences except when absences are necessitated by certain university-sponsored activities and are approved in writing by the Provost. Whenever the number of accumulated absences in a class, for any cause, exceeds ten percent of the total number of class meetings, the faculty member has the option of filing a written report to the Vice Provost for Academic Administration which may result in de-enrollment, pending any resolution of the excessive absences between the faculty member and the student...If the date of de-enrollment is past the last date to withdraw from a class, the student will be assigned a grade of W or WF (no grade). There are no refunds for courses where a de-enrollment was processed.” (see catalog for full text)

Because this course is a hybrid course, here is how attendance will be calculated:

Face to face portion of the class: You must be present on time for the full class for you to be considered present in the face to face meeting.

Online portion of the class: You are expected to work on material online every week. In order to get credit for being "present" in the online portion of the class each week you must complete at least one online quiz before the due date/time for that week.

If you miss 10% of the class, you will receive a warning. If you miss 20% of the class, you will be automatically de-enrolled.

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.

Academic Honesty: The Point Loma Nazarene University community holds the highest standards of honesty and integrity in all aspects of university life. Academic honesty and integrity are strong values among faculty and students alike. Any violation of the university's commitment is a serious affront to the very nature of Point Loma's mission and purpose. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. Such acts include plagiarism, copying of class assignments, and copying or other fraudulent behavior on examinations. For more details on PLNU's policy go to: <http://www.pointloma.edu/experience/academics/catalogs/undergraduate-catalog/point-loma-education/academic-policies> A student who is caught cheating on any item of work will receive a zero on that item and may receive an "F" for the semester. See the PLNU Catalog for a further explanation of the PLNU procedures for academic dishonesty.

Clarification of what I consider to be "cheating."

Written exams: Using anything besides your brain, writing implement, and anything else I have specifically noted prior to the start of the exam. Usually it will just be your brain and writing implement.

Programming exams: Using anything that connects to another person – from the class or otherwise – while taking the exam.

Online quizzes: Accepting answers, written or verbal, from another person without reading the assigned material yourself and having significant discussion with the other person about the answer. In other words, you may work collaboratively, but you may not just get the answers and write them as your own.

Labs:

- Putting anything into a program that someone else supplied without you understanding how it works.
- Accepting a program file from, or sending a program file to another person where that file is used as the basis for the recipient's program.
- Someone else writing any portion of your code.