

CS 121: Computer Science I

Fall 2016

Class Home Page

<http://cs.boisestate.edu/~cs121>

Catalog Description

CS 121 COMPUTER SCIENCE I (3-0-3)(F,S). Introduction to object oriented problem solving and programming. Software development process. Data and expressions, conditionals and loops, arrays and lists, and classes and interfaces. Introduction to graphical user interfaces and UML diagrams. *PREREQ: MATH 170. COREQ: CS 121L.*

CS 121L COMPUTER SCIENCE I LAB (0-3-1)(F,S). Lab work to accompany CS 121 Computer Science I. *COREQ: CS 121.*

Learning Objectives

At the end of this course, the student is expected to be able to:

- design object-oriented solutions to programming problems,
- implement working solutions to programming problems using good coding and documentation styles,
- explain basic concepts of computer science such as algorithms, abstraction, and encapsulation, and
- use an integrated development environment that is specialized for program development with reasonable proficiency.

Text

Java Foundations: Introduction to Program Design and Data Structures, 4rd edition by John Lewis, Peter DePasquale, and Joseph Chase.

CS Tutoring Center

Tutors for this course will be available in the computer science labs at scheduled times. Check tutoring center website for CS 121 tutors and their hours.

<http://coen.boisestate.edu/cs/computer-science-tutoring-center-cstc/>

Piazza

This term we will be using Piazza for class discussion. The system is designed for getting you help quickly and efficiently from classmates, the tutors, and instructors. Rather than emailing questions to the teaching staff, we encourage you to post your questions on Piazza.

Piazza will also be used for disseminating information. Subscription is **required**. Students are responsible for knowing information posted via Piazza.

Attendance

Students are expected to attend all classes. Missing classes without explanation may result in a grade penalty.

Programming Projects

There will be several programming projects throughout the semester. Written communication skills are assessed in documentation for programming projects.

- Programming projects require the implementation of working programs using the language constructs and techniques introduced in class.
- *Programs must be written individually.* Students who copy programs or sections of programs from each other or from any other source will be considered to be cheating as will students who allow their programs to be copied. See Academic Honesty section below for more information.
- Programs must run on the lab server **onyx**. *Any programming project that does not compile and run on onyx will be awarded a score of 0 points.* In order to improve that score, students must spend enough time with the instructor or a tutor to get the program running.
- Programs must be submitted by midnight the day they are due. Late programs are subject to a deduction of 10% every 2 days from the maximum possible score (e.g. a perfect program is worth 100 points if submitted *before midnight* and is only worth 90 points at 12:00 AM the second day). Programs will not be accepted more than 4 days late.

Exams and Quizzes

In-Class Quizzes

Quizzes will be given in class over assigned reading and/or material covered in class.

- In-class quizzes must be taken in class on the day they are given. Make-up quizzes will not be granted other than for exceptional reasons.
- Credit for the group portion of the quizzes will only be given to group members who participate in the quiz.
- The individual portion is worth 65% and the group portion is worth 35% of the total quiz score.
- If 80% of students complete the end-of-semester course evaluations, then the lowest quiz score will be dropped.

Final Exam

The final exam date is fixed and shown on the course website. Unless alternate arrangements are made in advance, only officially excused absences will be accepted for missing an exam. Any resources allowed for exams will be at the instructor's discretion.

Grading Policy

- Programming Projects: 60%
- In-Class Quizzes: 20%
 - Individual Quizzes: 65%
 - Group Quizzes: 35%
- Final Exam: 20%

Academic Honesty

Students are expected to work on their own on projects and homework assignments unless explicitly instructed otherwise.

Students who copy from each other or from any other source on assignments will be considered to be cheating as will students who allow their work to be copied. This includes trying to find answers to problems or programs from the Internet or other sources (and uploading your completed assignments to Internet sites that are publicly accessible).

Official University Academic Dishonesty Policy

Overview reproduced below. The full policy and procedures may be found at <http://deanofstudents.boisestate.edu/academic-dishonesty>

The term “academic dishonesty” may include cheating, plagiarism, or other forms of academic dishonesty. All assignments submitted by a student must represent her/his own ideas, concepts, and current understanding or must cite the original source. Attempts to violate the academic integrity of an assignment do not have to be successful to be considered academic dishonesty. Academic dishonesty may include, but is not limited to:

1. Stealing and/or Possessing Unauthorized Material – The unauthorized appropriation, possession or use of the property of another; the forgery or misuse of documents;
2. Fabrication and Falsification – The unauthorized alteration or invention of any information or citation;
3. Multiple Submission – The submission of substantial portions of the same assignment for credit more than once without the prior permission of all involved faculty members;
4. Abuse of Academic Material – Destroying, stealing, or making inaccessible library or other academic resource material;
5. Complicity in Academic Dishonesty – Intentionally or knowingly helping or attempting to help another commit an act of academic dishonesty.

Procedures for Breach of Academic Misconduct

- First offense: Student will receive a 0 on the assignment and an Academic Misconduct Report Form will be submitted to the Office of the Dean of Students.
- Second offense: Student will receive an F in the course and an Academic Misconduct Report Form will be submitted to the Office of the Dean of Students.
- Academic Misconduct Form: http://deanofstudents.boisestate.edu/wp-content/uploads/2014/10/Academic_Dishonesty_Report_Form.pdf.

CS121 Lab

The required lab component of this course is scheduled and graded separately from the lecture. Labs will be led and evaluated by graduate assistants and tutors. For more information on the lab, see the CS 121 lab section on Blackboard.

Lab Grading Policy

- Lab attendance is **mandatory**. Missing more than 3 labs will result in automatic failure of the CS 121 lab component.
- Each of the 15 labs is graded on a pass/fail basis.
- After you submit a lab, the lab instructor assigns a grade (pass or fail). Typically this will be done in real time in the lab before you leave.
- The final grade for the CS 121 lab component will be based on the ratio of passed labs to total number of labs (which is 15) (with the exception of those who automatically fail by missing more than 3 labs).
- Example grades:
 - 15 labs attended, 15 passed = $15/15 = 100\%$
 - 15 labs attended, 13 passed = $13/15 = 86\%$
 - 14 labs attended, 12 passed = $12/15 = 80\%$
 - 13 labs attended, 11 passed = $11/15 = 73\%$
 - 13 labs attended, 10 passed = $10/15 = 66\%$
 - 12 labs attended, 12 passed = $12/15 = 80\%$
 - 11 labs attended, 11 passed = automatic failure (too many missed labs)