

CSCI-195-A, Object Oriented Programming I

Fall 2009

1:00 – 1:50 MWF. Ambrose 413C

Instructor

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Office Hours: Monday – Friday, See class Web site for details

Course Description

This course introduces the fundamental concepts of programming from an object-oriented perspective. Topics include simple data types, control structures, an introduction to array and string data structures and algorithms, as well as debugging techniques and the social implications of computing. The course emphasizes good software engineering principles and developing fundamental programming skills using the Java programming language.

Objectives

Upon completing this course students will:

- Display the following programming skills
 - Fundamental programming constructs (sequence, selection, and repetition)
 - Problem solving and algorithm design
 - Fundamental data structures
- Communicate a basic understanding of the theory of programming languages, data types, and abstraction
- Demonstrate mastery of software specification, design, implementation, and validation

Prerequisites

None

Required Textbook

Big Java
by Cay Horstman 3rd Edition.
© 2007 by John Wiley & Sons. ISBN 978-0-470-10554-2.

Schedule

The class meets on Monday, Wednesday, and Friday from 1:00 to 1:50 in room 413C of Ambrose Hall. There will be no class on the following days: Mon 9/7, Fri 10/16, Mon 11/23, Wed 11/25, Friday 11/27. The final exam is on Wednesday December 16 from 1:00 to 2:50.

Requirements

There will be two midterm exams, a comprehensive final exam, regular quizzes and homework assignments. All reading is to be completed prior to the class in which the material is to be covered. Students are expected to participate in class discussions.

A class web site has been created for this class. A link to the class web site can be found at <http://web.sau.edu/LillisKevinM>. Students should check the class web site regularly throughout the semester.

Attendance

Students are expected to attend all classes and to arrive on time. Missed lectures are the responsibility of the student.

Readings

All reading is to be completed prior to the class in which the material is to be covered. Students are expected to participate in class discussions.

Homework Assignments

Each assignment is given a date and a time when the assignment is due. All assignments must be turned in on time. Late assignments will not be accepted. It is generally better to turn in a partially completed assignment rather than take a zero by turning in nothing or turning in a completed assignment late.

Collaboration

You are encouraged to discuss homework and other parts of the class with other students. Such discussions about ideas are not cheating, whereas the exchange of finished, written answers is cheating. Never give finished answers to someone else or use someone else's finished answers. Plagiarism and cheating are both considered grounds for a failing grade for that particular piece of work. Furthermore, they would weigh heavily in the final grade, possibly resulting in a failing grade for the entire course.

Students are encouraged to go to the Student Success Center in Ambrose Hall 243 or to call 333-6631 for information regarding tutoring in this class. The SSC provides free peer tutoring for most 100 and 200 level courses, writing tutorials for papers in all classes, and study strategy advice. Supplemental Instruction and study groups are also available in some classes. The center staff suggests that students seek help early, although drop in and contractual tutorials are arranged throughout the semester.

Grading

Exam 1	12%
Exam 2	12%
Final Exam	12%
Quizzes	12%
Homework	52%

Letter grades will be assigned based on the following:

90-100: A	86-89: B+	80-85: B	76-79: C+	70-75: C
60-69: D	Below 60: F			

In determining borderline grades, the instructor reserves the right to consider perceived student initiative and class participation.

An incomplete will be given only when a student meets the conditions stated in the latest St. Ambrose University catalog. Earning a low grade is not a valid reason for an incomplete.

Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the Office of Services for Students with Disabilities at 333-6275 as soon as possible to better ensure that such accommodations are implemented in a timely fashion.

Tentative Lecture Schedule

Week Of	Material Covered
August 24	Chapter 1 - Introduction; Compiling from the command line
August 31	Chapter 2 - Using Objects
September 7	Chapter 2 - Using Objects
September 14	Chapter 3 - Implementing Classes
September 21	Chapter 3 - Implementing Classes
September 28	Chapter 4 - Fundamental Data Types
October 5	Chapter 5 - Decisions; Exam 1 (Chapters 1 - 4)
October 12	Chapter 5 - Decisions
October 19	Chapter 6 - Iteration
October 26	Chapter 6 - Iteration; Section 11.1 - Text Files
November 2	Chapter 7 - Arrays and Array Lists
November 9	Chapter 7 - Arrays and Array Lists
November 16	Chapter 8 - Designing Classes; Exam 2 (Chapters 5 - 7)
November 23	Thanksgiving Break
November 30	Chapter 9 - Interfaces and Polymorphism
December 7	Chapter 9 - Interfaces and Polymorphism
Finals	Final Exam: Wednesday December 16, 1:00 - 2:50