

Georgia State University
Department of Computer Science

CSc 2010
Fall 2013

Sushil Prasad
Raj Sunderraman

Course Syllabus

Course Title

Principles of Computer Science

Course Description

An introduction to discipline of computer science with coverage of algorithmic foundations, hardware concepts, and introductory programming in Java.

Prerequisite

None

Class Time and Place

MW 12:00-1:15: Petit Science Center 230

OR

TR: 11:00–12:15: Petit Science Center 255

Labs: CS 400 (each section has different times slots, check your schedule)

Instructor

Professors Sushil Prasad and Raj Sunderraman

34 Peachtree Street, 14th Floor (Prasad: Room 1453, Sunderraman: Room 1452)

Email: sprasad@gsu.edu, raj@gsu.edu

Office Hours:

Monday and Wednesday: 1:30-2:30 (Prasad)

Tuesday and Thursday: 1:00 to 2:00 (Sunderraman)

TA Office Hours:

CRN	Lab Time	TA	TA email (@student.gsu.edu)	TA Office Hours
86077	R 10.00-10.50	Meng Yu	ymeng4	M 03.45-04.45
87914	M 12.00-12.50	Linda McDaniel	mmcdaniel16	M 11.00-12.00
87915	W 12.00-12.50	Sanish Rai	srai2	W 01.00-02.00
87912	T 04.00-04.50	Badri Jayakumar	bjayakumar2	T 02.50-03.50
87919	R 04.00-04.50	Fan Bai	fbai1	R 03.00-04.00
87921	W 04.00-04.50	Xuan Guo	xguo9	W 03.00-04.00
80250	T 10.00-10.50	Rasanjalee D.	dmrhimali	T 10.50-12.00
87920	M 04.00-04.50	Michael McDermott	mmcdermott2	M 03.00-04.00

All TAs are available on the 6th Floor of SunTrust Building (except Xuan Guo: Rm 1417, 34 Peachtree Street)

Textbooks

1. G. Michael Schneider and Judith L. Gersting, Invitation to Computer Science, 6th edition, Cengage Learning, 2013.
2. K.N. King, Java Programming: From the Beginning, W.W. Norton and Company, 2000.

(Note: These will be employed for both CSC 2010 and CSC 2310.)

Chapters

Schneider-Gersting

1. Introduction to Computer Science
2. Algorithmic Foundations of Computer Science
3. The Efficiency of Algorithms
4. The Building Blocks: Binary Numbers, Boolean Logic, and Gates
5. Computer System Organization

King

1. Getting Started
2. Writing Java Programs
3. Classes and Objects
4. Basic Control Structures
5. Arrays

Lab Manual

Chapters 1-6 (lab experience 1-10)

Grading

Programs, projects, quizzes, and exams will be given numerical scores. These scores will be averaged at the end of the semester using the following weighting:

Attendance and Lab Participation 10%
Assignments 25%
Quizzes 20%
Midterm 20% (Oct 7, 8)
Final exam 25% (MW: Dec 16, 10:45-1:15; TR: Dec 12, 10:45-1:15)

Letter grades will be determined by ranking the numerical averages of all students in the class. Cut-off points for grades will depend on the performance of the class as a whole; however, they will be no higher than 90 (A), 80 (B), 70 (C), and 60 (D). Plus/minus grading will be in effect for this course.

Quizzes

There will be six quizzes given during the recitation session. Missed quizzes cannot be made up. The lowest quiz score will be dropped.

Midterm

There will be a midterm test given, which will be 50 minutes long. If you are forced to miss this test because of illness or other catastrophe, you must notify the instructor in advance. Before a makeup exam will be given, you must supply written evidence (e.g., a note from a physician or hospital) that you were unable to take the exam at the original time. Without such evidence, you will receive a score of zero for the test. Seating charts may be used for the tests, and may change from one test to the next.

Final Exam

A two-and-half hour final exam will be administered at the scheduled final time. A seating chart may be used for the final exam, and it may be different from the one used for prior tests.

Assignments

There will be 9 take home assignments, due in one week. Each assignment will be worth 20 points. The penalty for late submissions will be 4 points per calendar day.

Attendance

Regular attendance is expected in both lecture and lab sessions; please notify us in advance if you will be unable to attend because of business travel or other valid reason. Although the grading policy does not take attendance into account, failing to attend may adversely affect your grade, since exams will cover material discussed in class as well as in the assigned readings; also, hints related to the assignments will be given in class. Last day of class is Dec 9th, Mon.

Academic Honesty

All work submitted for grading must be the student's own work. A student that submits an assignment that copies the work of another, in whole or in part, will be assigned a grade of zero for that assignment. Any student found to be cheating on an examination will receive a score of zero for that exam. Cheating on an assignment or exam may result in dismissal from the course and notification of the Dean of Students.

Classroom Etiquette

Cellular phones must be turned off during class. Please do not arrive late, leave early, or go in and out of class, since this behavior is very distracting. **COMPUTER USE DURING LECTURES IS PROHIBITED.**

Withdrawals

The last day to withdraw is Tuesday, October 15.

Disclaimer

The course syllabus provides a general plan for the course; deviations may be necessary.