

CS 0007: Introduction to Computer Programming
Class Number: 10523 (Lecture), 10524 (Recitation)
Summer 2011

Lecture Meeting Time	Tuesday & Thursday 12:00 PM - 1:45 PM
Recitation Meeting Time	Thursday 2:00 PM - 2:50 PM
Meeting Place	6110 Sennot Square

Lecturer: Eric Heim

Office:	6150 Sennot Square
Email:	eth13@cs.pitt.edu
Web Page:	http://www.cs.pitt.edu/~eth13
Office Hours:	Tuesday & Wednesday 2:00PM - 4:00PM, Thursday 3:00PM-5:00PM

Course Rationale: This is a first course in computer science programming. It is recommended for those students intending to major in computer science who do not have the required background for CS 0401. It may also be of interest to students majoring in one of the social sciences or humanities. The focus of the course is on problem analysis and the development of algorithms and computer programs in a modern high-level language. The use of application software is without exaggeration in every field of study. This course is designed to expose students to the methodology and techniques used in creating these applications. For the students who plan on majoring in Computer Science, this will be your first exposure to computer programming at the University of Pittsburgh. It will introduce topics needed throughout your study of Computer Science. For those not planning on majoring in Computer Science, this course allows students to understand the complexities in creating software, and be able to speak intelligently on a basic level about the process of creating software. Students will actively create algorithms and implement them in the Java programming language.

Course Objectives: Upon completion of this course the student should be able to:

1. Define common programming terminology
2. Analyze problems and design algorithms to solve them
3. Write basic Java programs

4. Analyze others' basic Java programs

Course Goals: Students will be exposed to computer programming by studying the following concepts and tools:

1. Problem solving by creating algorithms
2. Modeling algorithms
3. Integrated Development Environments
4. Java
 - (a) Variables
 - (b) Expressions
 - (c) Decision Statements
 - (d) Functions
 - (e) Loops
 - (f) Arrays
 - (g) Objects
 - (h) Graphical User Interfaces

Prerequisites: None.

CS Major Credit: Students majoring in Computer Science are not permitted to take this course after completing CS 0401.

Text: *Starting Out with Java: From Control Structures through Objects*, Tony Gaddis, ISBN 978-0-13-608020-6

Course Webpage: <http://www.cs.pitt.edu/~eth13/cs0007>. It is recommended that you check the course webpage periodically to be prepared for class. There will be assignments, projects, reviews, slides, and helpful links posted there.

Homework: I reserve the right to assign homework assignments, however infrequent. Late homework will not be accepted unless under extraordinary circumstances. Homework will be averaged with recitation assignments, if given.

Recitation Assignments: To emphasize some topics, assignments will be given during recitations. These will be collected at the end of the period and graded. If you are not present for recitation when an assignment is given, you will receive a zero for the assignment, unless a legitimate excuse is given prior to the class. Recitation assignments will be averaged with homework.

Quizzes: There will be 4 quizzes throughout the semester: 2 before the mid-term, 2 after. These are intended to help you keep up to date with the material, and help boost your grade. Make-up quizzes will not be given unless under extraordinary circumstances. The lowest quiz will be dropped.

Exams: There will be one mid-term and one final exam. The mid-term exam will cover the material up until the date of the exam. The final exam will cover the whole course with emphasis on the material after the mid-term. The mid-term exam is tentatively scheduled for Thursday June 16th, 2011 during class time. The final exam date will be announced. Make-up exams will not be given unless under extraordinary circumstances.

Projects: There will be 4-7 projects throughout the semester. These will largely be done out of class. If time permits I will reserve class time for working on projects. Late projects will not be accepted unless under extraordinary circumstances.

Class Participation: This portion of your grade is completely subjective. Largely the instructor will base this grade on actively participating in class discussions, coming to office hours when you need help, and generally showing the instructor you are putting forth an effort to understand the material. Notice, class attendance is not part of this grade.

Grade Breakdown:

Mid-Term	15%
Final Exam	20%
Homework/Recitation Assignments	20%
Projects	30%
Quizzes	10%
Participation	5%

Grading Criteria

A+	97% and Above
A	93-96%
A-	90-92%
B+	87-89%
B	83-86%
B-	80-82%
C+	77-79%
C	73-76%
C-	70-72%
D+	67-69%
D	63-66%
D-	60-62%
F	59% and Below

Class Attendance: Class attendance is not mandatory. HOWEVER, missing class without a valid excuse will not allow you participate during class, which will hurt your participation grade. Also, missing class without a valid excuse on a day where there is an assignment, quiz, exam, or homework due will result in a 0 for that assignment, quiz, exam, or homework. Also, if you are absent from a lecture, you are responsible for learning what was covered, and obtaining any notes or handouts given in class. All class handouts are available on the class website unless stated otherwise.

Academic Integrity: Students are expected to comply with the University of Pittsburgh's Academic Integrity Policy (<http://www.pitt.edu/~provost/ai1.html>). Any student suspected of violating this obligation for any reason during the semester will be required to participate in the procedural process as outlined in the University Guidelines on Academic Integrity.

Special Circumstances: If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Office of Disability Resources and Services, 216 William Pitt Union, (412-648-7890/TTY:412-383-7355) as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course.

Miscellaneous:

- Put all cell phones on vibrate. If they do not have a vibrate mode, turn them off. If

you must receive a call, leave the classroom and answer it in the hall. Cell phones should not disturb the instructor or your classmates.

- I reserve the right to change any information given on this document.