

CSC 2010 Introduction to Computer Science
Spring, 2007
M/W 3:00PM – 4:15PM, Room #315 GCB

Instructor: Qiong Cheng
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Course Home Page: <http://www.cs.gsu.edu/~cscqxcx/teaching.htm>
Office Hours: 100PM - 2:00PM Monday and Wednesday

Catalog Description:

Introduction to Computer Science. A first introduction to the discipline of computer science. Topics include algorithmic foundations, hardware concepts, software systems, applications, and social issues.

Textbook:

- + Computer Science – An Overview, by J. Glenn Brookshear, 9th edition, Published by Addison Wesley
ISBN # 0-321-38701-5
- + The Web Wizard’s Guide to JavaScript, by Steven G. Estrella, published by Addison Wesley
ISBN # 0-201-75833-4
- + The Web Wizard’s Guide to XML, by Cheryl M. Hughes, published by Addison Wesley
ISBN # 0-201-76990-5
- + The Web Wizard’s Guide to HTML, by Wendy Lehnert, published by Addison Wesley
ISBN # 0-201-74172-5

Recommended:

Lab Manual for Schneider/Gersting's An Invitation to Computer Science **1st Edition**
G. Michael Schneider Macalester College and **Kenneth Lambert** Washington and Lee University, Published by Brooks/Cole PB © 2000 ISBN/ISSN: 0-534-37489-1

The Most Complex Machine: A Survey of Computers and Computing, by [David Eck](#). (Published by [A K Peters Ltd.](#))

Schneider/Gersting's An Invitation to Computer Science: Java Version **1st Edition**
Jim Forkner Pennsylvania State University Published by Brooks/Cole © 2000
ISBN/ISSN: 0-534-38388-2

Attendance Policy: Daily attendance is required. **Every 3 missing class sessions will result in a letter grade dropped, unless your absences are approved by the instructor.** Make-up exams must be arranged prior to the scheduled date and will be allowed only at the discretion of the instructor. Any student missing a lesson is responsible for any material assigned or covered in class during his/her absence. **Cell-phone, pager . . . must remain OFF during class session.**

Note: students who skip the first two class sessions may be withdrawn (W/WF) from the course

Grading Policy: The grades for this course will be based upon the following components:

1. Three Tests: Total weight: 60%
2. Class Quizzes: Total weight: 10%
3. Homework assignments : Total weight: 10%
4. Project : Website: (Part 1: HTML, Part2:Java Script), Total Weight: 20%

Assignment/Homework Submission: Assignments/homework must be turned in (in class) by the due date; otherwise, your submission will be considered late.

Late submission penalty: is 20% and the assignment must be turned in by the start of the first class after the due date. No assignments will be accepted after that class.

All paper submissions must be typed and stapled. In general, tests and assignments will be graded and returned in one working-week; otherwise, students will be notified.

Note (GSU Computer Department's policy on computing final weight average): "It is the policy of the Department of Computer Science that each instructor of record of any 1000-, 2000-, or 3000-level computer science course compute each student's final course score so that the student's performance on any/all work done outside of class and submitted for a grade cannot raise the student's final course score but can lower it. In this context, the final course score, [or final weight average], is the numerical percent that is mapped into the letter grade for the course."

Academic Honesty Policy:

All work submitted for grading must be the student's own work. Plagiarism may result in a score of zero on the test or assignment, or dismissal from the course. Also, the Dean of Students office will be informed.

NOTE:

This syllabus represents a general plan for the course and deviations from this plan may be necessary during the duration of the course.

Qiong Cheng

12/20/06

Class Schedule:

Course Resources	<p>HTML 4.0 Standard HTML Tutorial XML Tutorials HTML Sample (book Web site)</p> <p>JDK(Java development package)download logicSim Freeware HTML Editor</p> <p>Thinking In Java (Electronic Book) (Source)</p> <p>Eclipse: An Open Software Development Platform (download) (Binary Searching Source Code) (Linked List Source Code)</p> <p>NVU: freeware HTML/Javascript Editor Javascript Sample(book web site)</p> <p>Insight and outlook: Why and how IBM architects became architects (IBM technical luminaries share their perspective)</p>
Students' Websites	<p>Telisha Liddell Ryan Harris Winship Alfred E Lopez Amanda Michele Pichon Jason Henry Parker Hanson David</p> <p>Rabiha Ilyas Hussain Timothy Paul Ross Brendan Thomas Clune Jamal K Auguste Yoko Ishioka Jingbo Shan</p> <p>Malcolm Anthony James Hutley Robert Anthony Campo Luke Richard Watts Renaldo James A. Farlow</p> <p>Rice Joel Bennett Jamesa R. Cowan Michael Carey Jefts Jasmin Millicent Rankine Shalia Walker</p> <p>Adeyemi Joseph Temitope Vining Howard Ramon George Bababikov Doll Rebecca Marie</p>

Tentative Class Schedule:

Week	Topic	Home works / Exams	Remarks
Week 1 January 8, 10	Introduction to the course Lecture 1 (chapter 0) Lecture 2 (1.1, 1.2)	Read chapter 0, 1.1, 1.2 Questions 5.a, 6.b, 7.a, 7.b of page 26 Question 1 of page 30	Handouts: Syllabus Self Evaluation Form In-class Exercise 1
Week 2 January 17	Lecture 3 (1.3, 1.4)	No class on Jan 15	Software: logicSim Before you run it, please ensure that your machine provides Java environment. Or else please download and install JDK installation package in your machine.
Week 3 January 22,	Lecture 3 (1.5,1.6,1.7) Lecture 4 (2.1,2.2)	Prepare for Quiz1	Number System

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Week 4 January 29, January 31	Quiz1 (Jan 29) Lecture 4 (2.2, 2.3)	Due: February 5, 2007 Question 6, 7 of page 89 Question 1 in 95, Question 4 in 97	Quiz 1 Solution Handout: Machine Instructions
Week 5 February 5, 7	Practice the execution of instructions in Chapter 2 Lecture 5,6 (Operating Systems 3.1-3.2)	Prepare for Quiz2 (Will cover chapter 2)	Handout: Solution for practices of machine instructions
Week 6 February 12, 14	Quiz2 (Feb 12) Lecture 7 (Operating Systems 3.3,3.5) Lecture 8 (Networking and Internet 4.1-4.3)	Due: February 21, 2007 Homework 4	Growth of the Internet Quiz 2 Solution Homework4 Solution
Week 7 February 19, 21	Lecture 8 (Networking and Internet 4.1-4.3) Application-layer Protocol (Networking and Internet 4.4)	Prepare for Test 1 (Will cover chapter 1 through 4.2)	HTML Sample (book Web site) Review for Test 1
Week 8 February 26, 28	Lecture 9(Introduction to XML & HTML) Instruction of HTML and XML Test 1(Feb 28)	Project(Phase I): Personnel Web Site Due: March 26th 2005	NVU: freeware HTML/Javascript Editor
Week 9 March 5, 7	Spring Break- No Classes		
Week 10 March 12, 14	Lecture 10 Algorithms 5.1-5.3)	Due: March 19, 2007	Simulation Software (Sequential Searching, Binary Searching, Insertion Sorting)

		Homework 5 In-class exercise in handout	
Week 11 March 19, 21	Lecture 10(Algorithms 5.4) Lecture 11 (Programming Languages 6.1-6.5)	Project Due: Midnight on March 26, 2007	
Week 12 March 26, 28	Lecture 12 (Programming Languages 6.1-6.5)		Manual for the first practice to programming Search Algorithm Code
Week 13 April 2, 4	Lecture 13 (Data Structures: Ch 8.1-8.3)	Prepare for Test 2 (Will cover chapter 5,6,8)	Review for Test 2 In-Class Practice for Test 2 Simulation Links for Data Structure Tree Traversal Handout
Week 14 April 9, 11	Lecture 14 (Software Engineering: 7.1) <i><u>Test 2(Apr 11)</u></i> Demonstration of Students' Web Design Lecture 15 Network Security[1]		Web Design Test2 Solution
Week 15 April 16, 18	Lecture 15 Network Security Lecture 14 (Software Engineering: 7.2-7.8) Lecture 16 Java script JavaScript [1,2],[3],[4],[5],[6],[7],[8],[9] JavaScript sample programs		Network Security [1], [2], [3],[CertAndKey] JavaScript Resource Source Code of Javascript Example
Week 16 April 23, 25	Lecture 16 Java script Lecture 17 Introduction to Ch 9		

<p>Week 17</p> <p>April 30, May 2</p>	<p>Apr. 30: Review chapter 7 and 9, Course Summary, Exam review, answering project questions</p> <p>Final Exam: May 2 2:45pm at General Classroom Building Room 315</p>	<p>Materials for reviewing</p> <p>1,2,3</p>	<p>Project 2 Information</p> <p>Due : Midnight on May 7</p>
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