CSE 373 -- Data Structures and Algorithms

Syllabus -- Spring 1999

Brad Chamberlain

Description: In this class we'll be studying a number of fundamental data structures and algorithms used in computer programming. An emphasis will be placed on data structures and algorithms that are of practical value, though more esoteric ones will also be considered. Students will analyze each concept covered in the course to understand its strengths and weaknesses, and to understand applications for which it would be appropriate. By the end of the course, students should have the skills necessary for selecting between existing data structures and algorithms, and for designing their own.

Text: Mark Allen Weiss' *Data Structures and Algorithm Analysis in C (second edition)*, Addison-Wesley (1997)

Staff (`cse373-staff@cs.washington.edu`)**:**

Brad Chamberlain, *instructor*	(`brad@cs.washington.edu`)	(**O:** W 3:30 *Sieg 326c*, **L:** Th 2:00)
Maria Gullickson, *TA*	(`maria@cs.washington.edu`)	(**O:** T 1:00 *Sieg 326a*, **L:** W 1:30)
Liang Sun, *TA*	(`sunliang@cs.washington.edu`)	

Lecture: MWF 2:30-3:20 : EE1, room 125

Week at-a-glance:

	Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
12:30					
1:00		**Office Hours** (Maria)			
1:30		*Sieg Hall 226a*	**Lab Hours** (Maria)		
2:00			*Thomson Hall 9*	**Lab Hours** (Brad)	
2:30	**Lecture**		**Lecture**	*Thomson Hall 9*	**Lecture**
3:00	*EE1-125*		*EE1-125*		*EE1-125*
3:30			**Office Hours** (Brad)		
4:00			*Sieg Hall 226c*		

Computing Resouces:

MSCC UNIX Lab
Personal Computers

Evaluation:

Assignments	50%
Midterm	20%
Final Exam	30%

Assignments:

- Assignments will be handed out weekly on Fridays, and will be due the following Friday *at the beginning* of class. Assignments turned in at the end of class will be considered late.
- Assignments will be a mixture of paper and pencil questions and programming tasks. All coding must be done in C or C++.
- You are allowed two late days for the quarter. Each late day gives you one extra class day to turn in an assignment. Thus, you may either turn in two assignments at the beginning of Monday classes, or one assignment at the beginning of a Wednesday class. Note that it is in your best interests to avoid using late days altogether. Once you've used both late days, no other late assignments will be accepted.
- Cooperation on assignments is permitted and encouraged. However, cooperation must be limited to group discussion and brainstorming. No written or electronic material may be exchanged. Each participant must write up/code their solutions independently after watching a banal sitcom or cartoon of their choice. If you are unclear on what is or is not reasonable collaboration, please contact the instructor.
- Cheating will not be tolerated and will result in university disciplinary action and a failing grade in the course.

Important Dates:

Midterm	Wednesday, May 5th (in class)
Memorial Day	Monday, May 31st
Final Exam	Tuesday, June 8th, 2:30-4:20

Rough Course Schedule:

week of ...	*topic*
March 29	asymptotic analysis, recursion, background
April 5	lists, stacks, queues
April 12	trees
April 19	hashing
April 26	heaps
May 3	sorting
May 10	disjoint sets
May 17	graphs
May 24	algorithm design
May 31	wrap-up, miscellaneous