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Summer 2005

### CS 400/600: Data Structures and Software Design

Jack Jean

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**CS 400/600: Data Structures and Software Design**  
**Summer 2005, 6:05-7:20 PM M, W, 154 RC**

1. **Instructor:** Jack JEAN, 334 Russ Center, 775-5106, jjean@cs.wright.edu

Office hours: 3-4, 5:30-6 PM, M,W (or by appointment)

2. **Textbook:** Data Structures and Algorithm Analysis, 2nd edition, by C.A. Shaffer, 2001

3. **Reference:** UNIX for the Impatient, 2nd edition, by P.W. Abrahams and B.A. Larson, 2000

4. **Weekly Topics:**

Week	Topics	Reading
1	Intro ADT, UNIX, C++	Ch. 1-2
	Review of Lists, Stacks, and Queues	Ch. 4
2	Algorithm Analysis	Ch. 3
3	Binary Trees	Ch. 5
4	General Trees	Ch. 6
	Searching (Self-Organizing Lists and Hashing)	9.2, 9.4
5	<b>Midterm</b> ; Internal Sorting	Ch. 7
6	Graphs	11.1-11.3
7	Graphs	11.4-11.5
8	External Sorting*	Ch. 8
9	Indexing	10.4-10.5
10	Matrix Representations	12.3
	Advanced Tree Structures; <b>Final</b>	13.1-13.2

\* The instructor will be out of town the first week of August (Week 8). Those two lectures in that week will be re-scheduled.

5. **Grading:**

- Midterm (July 11) 30%, Final (August 17) 30%, Three Programming Assignments 30%, Four Homework Exercises 10%.
- Final letter grade: 90+ (A), 80+ (B), 70+ (C), 60+ (D), otherwise (F).
- Late Policy: No assignment will be accepted after the due date. If you have not completed the assignment, turn in the work you have completed for partial credit.
- Students taking CS600 will be assigned more analysis works for assignments/tests.