

**COT 6405**  
**CPR 460**

**Theory of Algorithms**  
**Course Outline**

**Fall 2001**  
**11:00-12:15 TR**

**Peter M. Maurer**    ENB 314    974-4758/760-0276 (home 960-9534)    Hours 12:30-1:30 TR  
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I normally maintain an open door policy with respect to office visits. You are welcome to come by at any time. The door will be closed -- knock and it will be opened.

**TA:** TBA

**Texts:** Cormen, Leiserson, Rivest, Stein, *Introduction to Algorithms*, Second Edition  
Garey, Johnson, *Computers and Intractability, A Guide to the Theory of NP-Completeness*.

**Prerequisites:** This course requires graduate standing, or my permission for enrollment. If you are *not* a Computer Science/Engineering graduate student who has been formally accepted by the department of Computer Science and Engineering, then you must get my permission **PERSONALLY** to take this course.

There will be 3 exams. The first two exams will count 25% of your grade. The third exam will be comprehensive and will count 40% of your grade. Homework will be assigned every day (if I remember). It will be graded and will count 10% of your grade. *No* programming exercises will be assigned.

1. Aug 28      Mathematical Foundations
2. Aug 30      Mathematical Foundations
3. Sept 4      Mathematical Foundations
4. Sept 6      Mathematical Foundations
5. Sept 11     Mathematical Foundations
6. Sept 13     Sorting
7. Sept 18     Sorting
8. Sept 20     Sorting
9. Sept 25     Sorting
10. Sept 27    EXAM
11. Oct 2      Graph Algorithms
12. Oct 4      Graph Algorithms
13. Oct 9      Graph Algorithms
14. Oct 11     Graph Algorithms
15. Oct 16     Graph Algorithms
16. Oct 18     Graph Algorithms
17. Oct 23     NP-Completeness
18. Oct 25     NP-Completeness
19. Oct 30     NP-Completeness
20. Nov 1      EXAM
21. Nov 6      NP-Completeness
22. Nov 8      NP-Completeness
23. Nov 13     NP-Completeness
24. Nov 15     NP-Completeness
25. Nov 20     NP-Completeness
26. Nov 27     NP-Completeness
27. Nov 29     Parallel Algorithms
28. Dec 4      Parallel Algorithms
29. Dec 6      Parallel Algorithms

**FINAL: Tuesday Dec 11, 10:30AM.**