CS2ME3: Software Design I
Winter 2005

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Lectures: M,W,R 10:30–11:20 in ABB/270

Web Page: http://www.cas.mcmaster.ca/~soltys/cs2me3-w05

Text Book: *Introduction to Algorithms*, Second Edition, by Thomas H. Cormen et al., McGraw-Hill Book Company, 2001
The following are recommended references:

- *The C Programming Language*, Second Edition, by Brian W. Kernighan and Dennis M. Ritchie, Prentice Hall, Inc., 1988.
- *Software Engineering: Principles and Practice*, Second Edition, by Hans Van Vliet, Wiley, 2000.
- *The Art of Computer Programming*, Volumes 1,2,3, by Donald E. Knuth, Addison-Wesley, 1998

Course Description: A mathematical approach to program development using the **C** programming language. Here "mathematical" implies rigor in our approach to program correctness. You will learn program design techniques, as well as verification techniques.

Marking Scheme: Three assignments, worth 10% each, a midterm worth 20%, and a final exam, worth 50%. No aids will be allowed for the midterm and the final exam. Missed work will be given a mark of zero, unless proper justification is provided. The instructor reserves the right to conduct a missed midterm orally. You will learn **C** on your own.

Academic Integrity: Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university.
It is your responsibility to understand what constitutes academic dishonesty. For information on the various kinds of academic dishonesty please refer to the Academic Integrity Policy, specifically Appendix 3, located at
http://www.mcmaster.ca/senate/academic/ac_integrity.htm
The following illustrates only three forms of academic dishonesty: 1. Plagiarism, e.g. the submission of work that is not one's own or for which other credit has been obtained. 2. Improper collaboration in group work. 3. Copying or using unauthorized aids in tests and examinations.