

Syllabus: INFS 501 Section 001 - Fall Semester 2007 - Rev. 8/26/2007

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Web Site: <http://webct41.gmu.edu> . Password = your e-mail password,
Your login ID = first half of your e-mail, before the "@".
A few won't be able to access WebCT right away, if past is
prologue, usually because of a GMU e-mail address problem.
Notify me by e-mail of any problems & we can fix quickly.

Schedule: Wed. 7:20 - 10 pm, Science & Tech. I, room 122
08/29/2007 - 12/05/2007, except 11/21 (14 classes)
12/12/2007 Final Exam, 7:30 - 10:15 pm

Prerequisite: Completion of 6 hours of undergraduate mathematics.
Contact Information and Software Engineering Department for
assistance.

Topics: Course Catalog: "Study of discrete and logical structures for
information systems analysis and design including basic set
theory and proof techniques, propositional and predicate logic,
trees and graphs, finite state machines, formal languages and
their relation to automata, computability and computational
complexity, formal semantics-operational, axiomatic and
denotational approaches." We will focus on problem solving.

Textbook: Discrete Mathematics with Applications, 3 edition (December 22,
2003) By Susanna S. Epp, Publ: Brooks Cole; ISBN-10: 0534359450;
ISBN-13: 978-0534359454

We will start with mathematical induction ("MI"), a method of
proof with maybe the least conceptual and notational overhead.
MI also shows how strong your algebra should be for this course.
With that apology, the order we are following through the
textbook is: Chapters 4, 3, 5, 7, 10, 11, 1, 2, 6. Note symbols
are listed inside the front and back covers.

Grades: 1 comprehensive Final Exam: 40% of final grade.
2 Hour Exams: 20% of final grade each, 40% total.
Homework and quizzes together: remaining 20% of final grade.

Exams: Hour Exams: October 3, 2007 & November 28, 2007
Quizzes: September 12, 2007, October 17, 2007 & November 7, 2007
Quizzes will be "closed book," Exams will be "open book &
notes."

Tutoring: Questions? Send me an e-mail! If you need tutoring, please
make an appointment with our excellent TA, Mr. Huaming Liu. You
may also see me by appointment, usually before class.

Homework: Normally, homework will not be accepted late. Hour Exams and
Quizzes will never be allowed to be taken late.

Honor Code: The Honor Code must be followed. Any violations will be
reported to the Honor Committee.

Homework - From textbook

Row	Sec.	Problems	Due
(1)	4.1	2, 13, 16, 21, 31, 60	9/5/2007
(2)	4.2	2, 11, 20, 22	9/5/2007
(3)	4.3	9, 12, 22	
(4)	3.1	3, 5, 12, 27, 32, 46	
(5)	3.2	2, 15, 21, 27	
(6)	3.3	2, 9, 16, 19, 38	
(7)	3.4	17, 18, 24, 35, 50	
(8)	3.8	2, 7, 12, 16, 20, 25	
(9)	5.1	#2; #3; #7; #11 a, b, g-j; #12 a, c, e, g, i; #15	
		Suppose that of a population of students, 17 are taking Comp Sci, 13 are taking Math, and 19 are taking English. Also, 5 are taking Math and Comp Sci (and maybe English), and 6 are taking Math and English (and maybe Comp Sci), and 4 are taking all 3 subjects. How many are taking only Math?	
(10)	5.2	#4; #9; #13; #21, b, c; # 30	
(11)	5.3	2, 4, 7, 16, 17	
(12)	7.1	2; 11; 14; 35 d, e, f	
(13)	7.2	8, 13, 18, 19	
(14)	7.4	2, 4, 11, 17	
(15)	10.1	2, 6, 18, 29	
(16)	10.2	2, 13, 16, 17, 19	
(17)	10.3	11; 12; 13 b, c, d; 19	
(18)	10.4	2, 4, 5, 8, 32	
(19)	10.4	17, 20, 23, 27	
(20)	11.1	4, 17, 18, 29, 34	
(21)	11.2	8, 9, 10	
(22)	11.5	3, 15-20, 43-47, 49	
(23)	1.1	2, 17, 36, 44, 46	
(24)	1.2	2, 15, 27	
(25)	1.3	10, 11	
(26)	2.2	2, 10, 37, 43	
(27)	6.1	1, 4, 6, 12	

Calendar

Class	Date	Event	Details
(1)	Aug 29, 2007	1st Class	
(2)	Sep 5, 2007		
(3)	Sep 12, 2007	Quiz 1	
(4)	Sep 19, 2007		
(5)	Sep 26, 2007		
(6)	Oct 3, 2007	Hour Exam 1	
(7)	Oct 10, 2007		
(8)	Oct 17, 2007	Quiz 2	
(9)	Oct 24, 2007		
(10)	Oct 31, 2007		
(11)	Nov 7, 2007	Quiz 3	
(12)	Nov 14, 2007		
	Nov 21, 2007	Thanksgiving Break	
(13)	Nov 28, 2007	Hour Exam 2	
(14)	Dec 5, 2007	Review	
(15)	Dec 12, 2007	Final Exam	7:30 p.m. - 10:15 p.m.