Hello Section01!

Math 1030 Elementary Discrete Mathematics Spring 2013

Course News Headlines:

Week1: Covered 1.1&1.2
Week 2: Thurs quiz#1Sol(Sections:1.2&1.2)
Week 3: Thurs quiz#2Sol(Sections:1.3&1.4)
Week 4: Exam1
Week 5: Thurs quiz#3Sol(Lowend's Method)
Week 6: Thurs quiz#4Sol(Sections:3.1)
Week 7: Thurs quiz#5Sol(Sections:3.1&3.2)
Week 8: Thurs March 14 Exam2
Week 9: ThursApril 4th quiz#6Sol(Sections:4.4&4.5)

Week 9: More Counting Techniques Problems with solution
Week 10: **Thurs April 18 Exam3**
Week 11: ThursApril th quiz#7(Sections:)

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Office hours (MSB127): Tuesday/Thursday 9:30-11

Text: Mathematics Beyond the Numbers, Custom Ed, by Gilbert & Hatcher You'll also need a calculator for several of the section. Nothing fancy, but you need something that can do logarithms and exponents.

Objectives: This course will stress problem solving skills and the development of reasoning skills in an interactive setting. The mathematics involved are not difficult, but are probably different than the work to which you are accustomed. We will see how some of these mathematical ideas have very real and useful applications to the world around us.

Homework: The material covered in this course takes practice! The course outline at the end of this syllabus contains reading assignments and practice problems for each section. Homework problems will not be collected, but you will do yourself a disservice by neglecting them. Working through examples is the best way to learn these concepts. Homework problems will be discussed at the start of each lesson.

Quizzes: Short quizzes will begiven at the end of class each Thursday, and will be based on the recommended homework assignments. There will be no make-ups for missed quizzes.

Exams: There will be 3 in-class, hour-long exams. They will be administered on:

- **Thursday, Feb 14**
- **Thursday, March 14**
- **Thursday, Aril 18**
- **Final Exam**

A comprehensive final exam will be given (tentatively) during the common MATH block on Saturday, May 11. Attendance at all exams is mandatory, and no make-up examina- tions will be offered.

Final Grades will be calculated as follows:
Best 2 In-Class Exams - 20% Each Other In-Class Exam - 10%Quizzes & Projects - 20% Final Exam - 30%

Tips for the Course:

- Try all of the homework assignments! These topics are not inherently difficult, but they take practice.
- Stay up-to-date with the readings.
- Discuss the topics with your classmates.
- Dont hesitate to ask questions in class.
- If you have issues with any assignments, please communicate with me. Im here to help you as much as possible, but I can't do much if I don't know you're having trouble.
- If you have a diagnosed learning disability that requires special consideration, please see me as soon as possible. Class guidelines: It is expected that everyone in our class will act in a respectful manner:
- Turn off all cell phones and beepers before the start of class.
- Laptops are not to be used in class (Facebook can wait!)
- If you are late to class, please enter quietly and take your seat quickly
- Cheating of any kind is absolutely unacceptable and will be result in failure of the assignment. Please review the student code: http://www.dosa.uconn.edu/student_code.html

Course 1030 Outline

Note: Below is a tentative schedule for the class. Make sure you check it regularly for updates!

Week	Sections	Topics	Homework
1 Jan22	**1.1** **1.2**	Plurality, Runoff methods Borda's Method	pg 15 # 1, 3, 6, 7, 11, 15 pg 28 # 1, 3, 5, 9, 12
2 Jan28	**1.3** **1.4**	Head-to-head Comparisons Approval Voting	pg 39 # 1, 3, 7, 9, 11, 15 pg 51 # 2, 5, 7, 9, 11, 15
3 Feb4	**2.1** **2.2**	Quota methods Early Divisor Methods	pg 80 # 1, 3, 5, 8, 9 pg 99 # 1, 3, 5, 7, 11, 13
4 Feb11	**3.1**	Review **Exam 1 (in class)** **Section01:Thursday Feb 14** **Other: Wednesday Feb 13** Algebra Review	pg 133 # 1-29 odd
5 Feb18	**3.2** **3.3**	Simple Interest Compound Interest	pg 138 # 1, 7, 11, 15, 17, 21, 23, 27, 30 pg 150 # 1, 5, 9, 13, 17,21, 31, 35, 39, 52
6 Feb25	**3.4** **3.5**	Systematic Savings Amortized Loans	pg 161 # 1, 5, 9, 13, 15, 19, 21 pg 174 #1,5.9,13,17,23
7 March4	**4.1** **4.3**	Elementary Probability The Addition Rule	pg 192 # 1, 3, 5, 9, 11, 13, 17, 19, 23,29 pg 205 # 1, 3, 5, 7, 11, 13, 15
8 March 11		Review **Exam 2** **Section1:ThursdayMarch 14** **Other: Wednesday March 13**	
Mar18		**Spring Break**	
9 March 25	**4.4** **4.5**	Conditional Probability, BayesTheorem Counting Techniques	pg 215 # 1, 3, 7, 11, 13, 19, 23, 27, 34 pg 232 # 1, 5, 9, 13, 17, 21, 25, 29, 35
10 April1	**4.6** **4.7**	More Probability Expected Value	pg 242 # 1, 5, 9, 13, 17, 21, 25, 28,31,33 pg 248 # 1, 5, 9, 12, 13 17,23
11 April8	**4.8**	Genetics Review	pg 260 # 1,3- 6, 7, 11-13, 17, 21, 25
12 April15	**6.1**	**Exam 3** **Section01:Thursday April 18** **Other: Wednesday April 17**	pg 375 # 1, 5, 7, 11, 13, 15, 17,23,28, 31

		Euler Paths and Circuits	
13 April22	**6.2** **6.3**	Traveling Salesman Spanning Trees	pg 396 # 1, 5, 7, 9, 15, 19, 21,23 pg 411 # 1, 3, 5, 7, 11, 15, 21
14Apr29	**Review for up**	**Final Exam Review/Cath-**	