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Math 173

Winter 2015

Office Hours: M-F 8-8:50, 11-12:50 and by arrangement

Special points of interest:

- Daily homework is assigned but not collected.
- 4 Homework quizzes will be worth 20 points each, and cover assigned homework problems. Daily homework and notes may be used during these quizzes.
- We will have 3 100-point exams and a final worth 150 points. All tests are cumulative.
- A handwritten 3 x 5 note card may be used on tests.
- The first 3 tests may be retaken.
- Dates for exams and quizzes will be announced in class.
- If time permits, a project will be worth 50 points.
- Six group homework assignments will be worth about 80 points total.
- Grades are based on total point percentages, calculated to the nearest whole number.

A=93%, B=83%, C=73%, D=63%

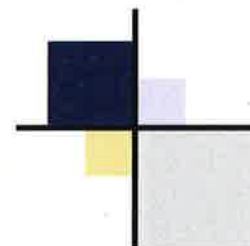
A minus grade would be (-3%) and a plus grade would be (+4%)

Course Summary

Calculus has traditionally been the target course for all the graphing, equation solving, factoring, and other algebraic operations that you learned in previous mathematics courses. Calculus is also the springboard to enter higher mathematics courses and Calculus-based science courses. Tests and homework assignments reflect the ability of students to handle rigorous assessments at the university level. Calculus II builds on the concepts of limit and derivative learned in Calculus I. Basic course goals include:

- Making sense of the concept of the product of two quantities when one of the quantities varies.
- Approaching the concepts of indefinite and definite integrals numerically, graphically and algebraically.
- Using integrals to solve volume and area problems for solids of revolution.
- Graphing and solving basic differential equations.
- Using technology to help solve problems, experiment, interpret results and verify conclusions.
- Determining the reasonableness of solutions, including sign, size, relative accuracy, and units of measurement.

- Appreciating that the procedure for solving a problem is as important as the answer, and that a variety of procedures can be used to solve most problems.
- Communicating knowledge in both everyday and mathematical language.



Necessities

1. Come to class. Math, like foreign languages requires a daily commitment to become successful.
2. The required text is Hughes-Hallett, Calculus, 6th Edition
3. You should also have a graphing calculator. (I will be using a TI-84), a ruler, and graph paper.
4. Get yourself the help you need. I am more than happy to help you as much as possible. Beyond that, form study groups or get a study partner, and take advantage of the math center and SI sessions here on campus.
5. Participate in class discussions. The best learning takes place when students ask questions.

Section Number**Suggested Homework Problems**

5.1	1, 5, 6, 24, 26
5.2	4, 5, 9, 14, 15, 20, 21, 23, 27, 41
5.3	1, 4, 7, 9, 11, 13, 15, 16, 19, 23, 31
5.4	1, 2, 7, 8, 13, 15, 18, 25
6.2	9, 11, 15, 25, 28, 37, 41, 48, 50, 51-59 odd, 61, 67, 69, 76, 84, 85
6.3	3, 7, 11, 12, 15, 19, 27
6.4	4, 5, 11, 13
7.1	3, 7, 11, 15, 19, 21, 25, 31, 33, 71, 75
7.2	1, 3, 5, 9, 13, 21, 33, 41
7.4	8-14 even, 23, 30a, 39-43 odd, 57, 59, 60, 71
7.5	7, 8a, 9a, 10, 15, 26a
7.6	2, 3, 5, 7, 11, 15, 19, 23, 25
8.1	5-17 odd-just definite integrals, 24-27, 33, 36, 37
8.2a	15-20, 61, 63
8.2b	2, 5, 7, 9, 28, 40, 41
8.2c	By Shells Only 4, 30, 59 find volume
8.5	1, 5, 12, 13, 17, 18, 22, 24
