MATH 211: CALCULUS II

Spring 2012

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Text: *Calculus*, Second edition, by Gilbert Strang (published by Wellesley-Cambridge Press)

Office Hours: MW 1:30 - 3 and by appointment

This course continues the study of differential and integral calculus. Topics include techniques of integration, applications of the definite integral, infinite series, Taylor series, and differential equations. We will be covering chapters X-XIV of the text as well as supplementary materials on differential equations.

The course grade will be based on three in-class exams, three writing assignments, and a final exam. Reading and problems will be assigned for each week. It is expected that the student will read the text critically and work *all* of the assigned problems.

Grading		Exam Dates	Manuscript Due Dates
Manuscripts	20%	Feb 13	Feb 10
Hour Exams	60%	Mar 19	Mar 12
Final Exam	20%	Apr 23	Apr 27

Academic honesty is valued at Simon's Rock. All students are expected to know and uphold the college's policies on academic dishonesty as described in the Catalogue.

This syllabus is subject to change.

A student with special needs should feel welcome to discuss these with the instructor.

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Math 210   **Assignments**   **Fall 2011**

Text: Gilbert Strang, *Calculus*, Second Edition

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WEEK	READ	DO
1. Jan 23-27	§7.1-7.2	§7.1 #2,4,7,8,13,15,19,30,31,60,61; §7.2 #1,5,8,11,16,23,27,38,44.
2. Jan 30-Feb 3	§7.3-7.4	§7.3 #1,6,9,12,13,26,28,39,42,49; §7.4 #3,5,8,9,10,14,16,21,22.
3. Feb 6-10	§7.5	§7.5 #1,2,5,7,10,14,19,22.
4. Feb 13-17	§8.1	§8.1 #5,9,12,21,22,25,31,34.
	Break	
5. Feb 27-Mar 2	§8.1-8.2	§8.1 #43,50,57,59. §8.2 #3,6,9,11,20,21,28.
6. Mar 5-9	§8.3-8.4	§8.3 #1,4,6,9,16,17. §8.4 #3,6,11,12,13,15,17,27.
7. Mar 12-16	§8.5-8.6	§8.5 #5,6,9,10,12,13,14. §8.6 #2,4,7,9,11,19.
8. Mar 19-23	§9.1-9.3	§9.1 #3,5,6,11,12,17,18,21,31. §9.2 #5,9,14,17,22,31.
	Break	
9. Apr 2-6	§9.3-10.1	§9.3 #3,6,7,10,24,27,28,32,40. §9.4 #3,4,6,10,11,20,31. §10.1 #2,5,20,33,36,37.
10. Apr 9-13	§10.2-10.3	§10.2 #7,12,15,16,18,19,23,24,30,38,49,57,58,61,65; §10.3 #2,6,9,15,17,30,39.
11. Apr 16-20	§10.4-10.5	§10.4 #5,6,12,13,21,25,26,37,41,48; §10.5 #1,3,6,7,10,12,15,17,18,20,21,33,34,46,47,49.
12. Apr 23-Apr 27	§11.1-11.4*	§11.1 #3,5,7,10,11,13; §11.2 #3,6,9; §11.4 #3,5,7,11,17,21,23,35,39,43.
13. Apr 30-May 4	§11.10-11.11*	§11.10 #5,9,13,17,21,23; §11.11 #5,9,15,21,23,25,35,39.
14. May 7-9	Review	

* Week 12-13 readings refer to Chapter 11 of *Calculus*, 3rd edition, by Hughes-Hallett, et al.