Math 2210, Calculus III

Spring, 2012 MWF, 10:30-11:20 a.m. NOYES 130

Instructor: Larry Smith SCNCE 111 283-7520 Larry.Smith@snow.edu http://www.snow.edu/larrys

Snow College Master Course Syllabus: https://www.snow.edu/syllabus/pdf.php?syllabus=9095

Text: *Thomas' Calculus, Early Transcendentals* 11th edition, by Thomas, Weir, Hass, Giordano ISBN 0-321-19800-X. We (un)cover chapters 13–16. Other tools needed: a good scientific calculator.

Prerequisite: MATH 1220 (Calculus II)

Objective: To become proficient in calculus topics such as 3-D vectors, cylindrical and spherical coordinates, derivatives in *n*-space, gradients, integrals in *n*-space, vector calculus, etc., and to appreciate the usefulness and beauty of mathematics. Also to gain some proficiency in a Computer Algebra System and Graphing Calculator.

Resources and Help: In addition to attending class religiously and completing the assigned homework, there are other resources you may use to help you achieve the objective. Regular visits to the Math/Science Lab are highly encouraged. You are encouraged to see me during my regular office hours (M–F 11:30-12:20, T 10:30-11:20), and at other times by appointment. Use your classmates and the class e-mail list as resources. Much of your mastery of the material will come from out-of-class activities (please plan to spend two hours outside of class for every hour in class). Don't get behind, and don't stay lost for long. Students with medical, psychological, learning or other disabilities desiring accommodations or services under ADA must contact the Accessibility Resource Center (ARC). The ARC determines eligibility for and authorizes the provision of these accommodations and services for the college. For assistance, please contact the Accessibility Services Coordinator at 241 Greenwood Student Center, or (435) 283-7321, or Katie.larsen@snow.edu. For more detail see http://www.snow.edu/larrys/ADA.html.

Homework: Homework will be assigned every section. You are strongly encouraged to study in groups to achieve understanding, but what you write on your paper must be your own work—don't turn homework in without understanding it. Write neatly; use lots of paper. Homework is generally due at the beginning of the second class period after it is assigned. Homework that is late for any reason other than a pre-approved legitimate excuse will be worth 50% up to one week late; thereafter no credit will be given. No late homework after April 17 will be accepted.

Participation/Group Work: Ask questions in class, come to office hours, and help other students. Both asking and answering questions should prove you've delved deeply into the chapter material. Also subscribe to the class e-mail list (LS-Blue). You are responsible for information given over e-mail.

You will do much of your work in groups of 3 or 4, including some group quizzes; therefore you should study in groups daily. Prior reading of each section is crucial; therefore, you will also turn in a reading slip with a written question every day we start a new section—a question about the section that you would like the answer to and which demonstrates prior reading.

There are Technology Application Projects at the end of each chapter. Use a CAS and work on these as a group throughout the chapter; they are due the second day of the next chapter; turn in a group write-up or file for them.

Quizzes: Frequent quizzes will assess your prior reading of the section scheduled for the day.

Tests: There will be a test every chapter in the testing center (except Test 4 may be take-home).
Testing Center hours are M-R 9-10:30, F 9-7, Sa 12-4, Su 5-9.

Final Exam: Thursday, May 3, 9:30-11:30 am; in the classroom. It will be comprehensive and fun.

Grading:	Homework	25%	Tests	25%	Final Exam	20%
	Quizzes	20%	Particip./Group	10%		