MATH 114
Analytic Geometry and Calculus II
Fall 2010, Section 1

Instructor: David Singman

Office and Hours: Science & Tech I, Room 235, T, Th 1:00-2:15pm and by appointment.

E-mail and Telephone: dsingman@gmu.edu, (703)-993-1476. You can leave a voice-mail message if I am unavailable, but it’s better to send me an e-mail.

Web site: A web site has been set up for the course. You are responsible for checking the homepage of the site for updates each day. On it I will post announcements relevant to the course such as information on weekly quizzes, copies of quizzes and tests once they are given as well as complete solution sets, MAPLE computer assignments and information on MAPLE, lists of practice problems, this syllabus, etc. You can find it by going to http://math.gmu.edu, from the “current student” tab at the top choose “course” and then “course home pages”. There you will find a link to our course webpage.


Prerequisites: A grade of C or better in Math 113 or its equivalent.

Course: This is a basic second course in calculus for science students. Topics include the following: techniques of integration, some applications of the integral (volumes of solids of revolution, arc length, exponential growth, first order differential equations), numerical integration, infinite sequences and series, Taylor series, polar coordinates, complex numbers.

Practice Problems: See the list of Practice Problems. You should do each of them as the associated section is covered. Your work on these problems will not be collected, however, it is very important that you work each problem yourself. Mathematics can only be learned by working through problems, not by reading someone else’s solutions. Quizzes and tests will consist of questions similar in spirit to the problems worked in class (so I consider it very important that everyone attend all classes) and the practice problems. You should make a point of coming for extra help either with me, the TA for the class, or tutors in the tutoring center if you are unsure of how to do some of these problems.

Grading: The grade will consist of weekly quizzes given in your recitation section, three class tests, some MAPLE computer lab assignments, and a cumulative final exam (see below for date and time). These will count towards your grade as follows: quizzes 15%, tests 15% × 3, computer assignments 5%, final exam 35%. The quizzes will be written during your recitation section. The lowest two quiz grades will be dropped. No makeup will be given for any reason. Makeups will not be given for class tests. In the event that one exam is missed, the final exam score will count in place of the missed exam.

Class tests: These will be held in class on the following days:
Test 1: Thursday, September 23,
Test 2: Thursday, October 28
Test 3: Thursday, December 2.

Final exam: It will be a cumulative exam, held on Thursday, Dec. 16, 1:30am-4:15pm.

Scale: A−, A, A+: 90-100;    B−, B, B+: 80 - 89;  C, C+: 70 - 79;  D 60 - 69;  F 0 - 50.

Office of Disability Services: If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Resources at 703/993-2474. Their website is at http://ods.gmu.edu/. All academic accommodations must be arranged through that office.