MA 231 - 005

Calculus for Life and Management Sciences B
Spring 2015

Time and Place: TH 6:00-7:15 PM, SAS Hall Room 2229

Instructor: Kristina Martin
  Office: SAS 3147
  Email: kmmarti6@ncsu.edu
  Office Hours: Wednesdays 10:30-11:30, Thursdays 3:00-4:00, and by appointment.


Course Content:

I. Functions of several variables - partial derivatives, optimization, least squares, multiple integrals;
   Lagrange multiplier method - chain rule, gradient;

II. Taylor polynomials and series; numerical methods

III. Differential equations - population growth, flow processes, finance and investment models, systems;

Homework: Homework can be accessed at https://www.webassign.net/ncsu/. There are 15 total
graded assignments. Typically homework is due every Monday at 10:00 PM, with some exceptions.
Following is the complete list of homework due dates: 1/20 (Tuesday), 1/26, 2/2, 2/6 (Friday), 2/23,
3/2, 3/23, 3/30, 4/13, 4/24 (Friday). On some of these dates more than one assignment is due.

Attendance: The university requires an attendance record for all 100 and 200 level classes, so attendance
will be taken. Attendance does not factor in to your course grade.

Exams: We will have four exams during the semester: Three midterm exams on

  • Tuesday, February 10
  • Tuesday, March 3
  • Tuesday, April 14

each at our normal meeting time.

The final exam is on Thursday, April 30, 6:00-9:00 PM.

Each student will need to bring looseleaf paper on exam days.

Grading: The grade for this course will be distributed as follows:

  Homework  30 %
  Midterm Exams  45 % (15 % each)
  Final Exam  25 %

The final letter grade for this course will be no worse than the standard 60-70-80-90 grade model.

Disability Services: Reasonable accommodations will be made for students with verifiable disabilities.
In order to take advantage of available accommodations, students must register with Disability Services
for Students at 1900 Student Health Center, Campus Box 7509, 515-7653. For more information on NC
States policy on working with students with disabilities, please see the Academic Accommodations for
Students with Disabilities Regulation (REG02.20.1)
**Additional Policies**

**Exam Make-Up Policy:** All anticipated absences must be excused in advance of the test date. These include university duties or trips (certified by an appropriate faculty or staff member), required court attendance (certified by the Clerk of Court), or religious observances (certified by the Department of Parent and Family Services 515-2441). Emergency absences must be reported as soon as possible and must be appropriately documented (illness by an attending physician or family emergencies by Parent and Family Services). If you are sick on a test day and decide not to come to class, go to the health center or other medical facility. Students who miss a test and have a university-approved excuse must submit appropriate documentation.

**Expectations:** I expect that everyone will maintain a classroom conducive to learning. Everyone is expected to behave with basic politeness, civility, and respect for others. In particular, talking in class is ok if it’s part of a class discussion or with me. Private communications are not, especially during exams. Neither are reading extraneous materials, using electronic equipment, or sleeping.

**Calculator:** Scientific but non-graphing and non-internet accessing calculators are permitted on exams. If you are concerned about whether your calculator is exam permissible, please see me. No other electronic device (phone, laptop, tablet, etc.) is permitted during exams.

**Homework Grading:** Each student will have the lowest three WebAssign homeworks dropped from their final grade. If you have an issue with a submission on the site, email the instructor BEFORE the assignment is due. Homework extensions will not be given.

**Suggested Homework:** In addition, for each section of the text that we cover, I will provide recommended problems from the text that you should be able to do. You will not turn them in, though I highly recommend you complete them, since the online homework will not always cover everything that will be covered in class and on exams. These will be updated as new material is covered, so check back often.

**Homework Collaboration:** I encourage you to collaborate on the homework with fellow students, provided that it is done in a way that maximizes the benefit of the homework to all people involved. You will get maximum benefit from a homework problem if you work hard on it alone before combining your ideas with someone else’s.

**Tutors:** The Math Multimedia Center is a tutorial center for undergraduate students that need help in their mathematics courses (100- through 300-level), and is staffed by math graduate students familiar with the material taught in these courses. The MMC is located at SAS Hall 2103/2105 and is open Monday through Friday from 8:00 am to 5:00 pm.