

MAT 212 — Calculus and Analytic Geometry II

Spring 2009

Professor: Dr. Bryan Dawson (x5268, bdawson@uu.edu, www.uu.edu/dept/math/Dawson/
Course webpage: www.uu.edu/personal/bdawson/courses.htm

Text: Thomas' Calculus, 11th edition, Weir, Hass and Giordano

Prerequisite: MAT 211 Calculus and Analytic Geometry I

Subject matter: We will cover most or all of chapters 5–8 and 10 of the textbook. Both development of skills and understanding of concepts will be taught, so it will be important for the student to concentrate on learning the ideas of the calculus and not just on “getting the problems done.” This dichotomy also helps students (1) in the quest to understand God’s creation in the abstract, as minds are sharpened, and (2) in the ability to participate in the “dominion mandate” of Genesis 1:28.

Tests: Four tests will be given before the final exam. Point totals for tests will vary; see the assignment list for details. Each test generally covers one chapter. Makeup tests will be given only in circumstances deemed reasonable by the instructor (see Numbers 9:6–13), but they must be taken before the class meeting following the exam unless prior arrangement is made with the instructor. A comprehensive final exam will be given. It will be over all material covered in the course, including material presented after the last regular test.

Homework: Daily assignments will be given; portions of these will sometimes be handed in. Late homework will not be accepted after the assignment has been graded.

Lab assignments: Class will meet in a computer lab for lab assignments on several Fridays; three lab assignments will be graded. All lab assignments will be due on Wednesday after each Friday lab. Whether or not a particular lab assignment is to be graded will not be announced in advance. A late lab will not be accepted after the lab has been graded.

Class participation: Either immediately before class or during the first three minutes of class, students are to put on the whiteboard solutions of homework problems from the previous day’s assignment. Each student is expected to put up at least 10 problems during the semester (no more than one per day). No two students may put up the same problem. In-class discussion time for answering homework questions will be limited to 10–15 minutes maximum per section and may often consist mostly of discussion of the problems put on the board by students.

Question/problem sessions: The instructor will be available in the classroom (or other room to be announced) on Tuesdays at 12:15 in order to answer additional homework questions; the instructor reserves the right to cancel these sessions if too few students are attending.

Final grades: A student’s final grade will be based on the homework and labs (100 points total), hour tests (300 to 350 points total), and final exam (200 points). A penalty will be assessed (points deducted) for not meeting the requirements listed under “class participa-

tion;" the penalty shall be 3 points per problem below the requirement, to be deducted from the semester homework/lab grade. The homework/lab grade will consist of the ten best homework/lab scores, but must include at least two lab scores. The grading scale will be 92–100, A; 83–91.9, B; 74–82.9, C; 65–73.9, D; 0–64.9, F.

Calculators: A TI-83/TI-84 or similar calculator may sometimes be helpful. The instructor does not offer support for calculators other than the TI-83/TI-84. Use of TI-89, TI-92, Voyage 200 or equivalent calculators will not be allowed during tests.

Academic dishonesty: Acts of cheating or plagiarism will result in an automatic F for this course and will be reported to the office of the provost for possible further action.

ADA accommodations: In compliance with the Americans with Disabilities Act, appropriate accommodations will be made to meet documented needs. Please talk with me about your individual needs following the first class meeting.

Classroom decorum: All cell phones must be turned off while in the classroom. No cell phone is to be visible during tests. No brimmed hats are to be worn during tests.

Office hours: 3:00–3:50 MWF and 9:30–11:30 TR, or by appointment, in PAC C–56.