MATH 121.A – Calculus III / Spring 2013

Textbook: Calculus (Early transcendentals), by J. Stewart, 7th Ed.

Class Meets: MWF: 10:40 – 11:30, Th: 10:00 – 11:15 a.m. (102 Perkins)

Instructor: Dr. Taras I. Lakoba, Math & Stats Bldg. (16 Colchester Ave.), Room 405
656-2610, tlakoba@uvm.edu, http://www.cems.uvm.edu/~tlakoba

Office Hours: M & W: 2:00 – 3:00 p.m., Th: 1:30 – 3:30 p.m., and by appointment.

Important deadlines: Add/Drop and Pass/no Pass: Monday, January 28;
Class withdrawal: Friday, March 29.

Course contents: Verbal description: Vectors; Equations of lines and planes; Vector functions; Partial and directional derivatives; Extrema in multidimensions; Multiple integrals; Line and surface integrals; Green’s, Stokes’, and Gauss’ (Divergence) theorems. By Section: Chaps. 12 – 16.

Homework: Homework is posted on the website listed above. Most of it must be done through WebAssign; see directions posted on the same website (i.e., on http://www.cems.uvm.edu/~tlakoba). Homework for any given section is considered assigned on the day that section has been covered.

The purpose of the homework is to help you master the techniques covered in class. As such, homework problems will be substantially based on examples and material presented in class. Therefore, you should study your notes before you attempt the homework, and mimic your solutions on the examples in the notes and the indicated examples from the book. See the instructor for help as soon as you find out that you are having difficulty with the homework.

The part of homework that must be done through WebAssign will be graded (by WebAssign); the rest will not be. However, both quizzes and tests will be substantially based on the homework problems, and therefore you should do all of the assigned problems.

Computer work: You will do seven Mathematica Labs. We will start them in class, and you are expected to complete them outside of class. All of these Labs will be graded. Please review an important note, posted on the website, about my policy on grading the Labs and on helping you with them during the office hours. Using Mathematica when doing regular homework problems is encouraged but not required.

Tests and Quizzes:
(a) There will be 3 (three) one hour long in-class tests during the semester. Their dates will be announced in class at least a week before each test. Make-up exams will be given only to those students who have documented excused absence.
(b) The final exam will be given on Monday, May 6, at 7:30 – 10:15 a.m. in 102 Perkins.
(c) Quizzes, sometimes unannounced, will be given approximately once a week. They will be based on the homework problems that has been due at least one day ago. You are encouraged to ask which section’s homework will be covered in the next quiz.

The main purpose of the quizzes is to help you monitor how well you are doing in the course. If you receive a low grade on a quiz, it is a flag that you need to review the corresponding material. A structured, 3-step process of such a review is posted on the course website. If you receive a couple of low quiz grades in a row, see the instructor for help as soon as possible.

Grading policy: 1st in-class test = 12%; 2nd and 3rd in-class tests = 13% each; final exam = 22%; all homework assignments combined = 12%; all quizzes combined = 15%; all Labs combined = 13%. Extra credit may be earned as explained below.

Note: I do NOT drop your lowest grade. Thus, ALL the grades that you earn during the semester will contribute to your final grade, as detailed above.

Academic integrity: You are expected to read and understand the UVM Academic Honesty policy, found at http://www.uvm.edu/~uvmppg/ppg/student/acadintegrity.pdf.

Attendance: Attendance will be monitored randomly. If the record shows that you have attended at least 90% of monitored classes, you will get a bonus equivalent to three quarters of your highest quiz grade (starting with Quiz 2) added to the final grade. This is to encourage attendance, which is often positively correlated with good performance.

Extra credit: Additional homework, which is considered an extra credit, may be assigned occasionally. These assignments will be graded (on a coarse scale) by me, i.e., not by WebAssign. No penalty will be given if you choose not to do these extra credit assignments. Before you decide to do a particular extra credit assignment, please review more detailed instructions found on the course website.

I also reserve the right, at my sole discretion, to increase the final grade of any student by one level (e.g., from B- to B) for a demonstrated achievement, some examples of which are: active and constructive class participation; regular, purposeful, and active attendance of office hours; excelling on the final exam; being the “most improved” student in terms of performance or attitude, etc.

Special accommodation: Students with disabilities who require special accommodation must notify the instructor of their needs within the first two weeks of the semester. They must also provide a formal letter from the Office of Specialized Student Services.