SYLLABUS

INSTRUCTOR: Cristina Popovici
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E-MAIL: cristina.popovici@ndsu.edu
OFFICE HOURS: W 3:00PM-3:50PM, Th. 8:00AM-9:50AM, or by appointment

CLASS MEETS: 2:00PM-2:50PM MWF in FLC 124
WEB PAGE: http://math.ndsu.nodak.edu/faculty/popovici/Fall2009-Math259.html

COURSE DESCRIPTION: Functions of several variables, vectors in two and three dimensions, partial derivatives, surfaces and gradients, tangent planes, differentials, chain rule, optimization, space curves, and multiple integrals. For a more detailed description of the topics covered in this course see the attached “Course Schedule”. Prerequisite: MATH 166.

COURSE OBJECTIVES: The main goal of this course is to provide a solid understanding of selected topics in calculus of more than one variable. Conceptual and computational skills will be developed, with an emphasis on understanding concepts. The students will be exposed to both theoretical and applied points of view. By the end of this course you will be able to compute the volumes and surface areas of different types of three-dimensional objects.

HOMEWORK: Homework problems will be posted on the course web page as we proceed. With few exceptions, I will post the homework problems online shortly after the end of each lecture. Homework will not be collected, but you are strongly encouraged to work all the homework problems (and even beyond these) since this is the best way to ensure that you understand the material covered in class. If you have trouble with any of the assigned problems (or any others in your textbook) please see me or your recitation instructor as soon as possible.

QUIZZES: Except for the first and the last week of classes, there will be a quiz covering material from previous lectures once a week in lecture. The quizzes will be averaged for a part of your final grade.

EXAMS: There will be three in-class Exams (closed books and notes, no calculators) and a comprehensive Final Exam (closed books and notes, no calculators) which will be given according to the following schedule:

EXAM # 1 - FRIDAY, SEPTEMBER 25, 2009
EXAM # 2 - FRIDAY, OCTOBER 23, 2009
EXAM # 3 - WEDNESDAY, NOVEMBER 25, 2009

FINAL EXAM - THURSDAY, DECEMBER 17, 2009, 10:30AM-12:30PM
The three midterm exams and the final exam are to be written individually, any collaboration is prohibited. Makeup tests for the midterms will be given only in case of a legitimate (documented) excuse. If for some reason you are not able to take a particular exam at the scheduled time, you are required to inform me in advance. **There will be NO makeup final exam.**

**GRADES:** The breakdown of your final grade will be as follows:

- Quiz Average: 25%
- Exam # 1: 15%
- Exam # 2: 15%
- Exam # 3: 15%
- Final Exam: 30%

Your final grade for the course will be determined according to the following scale:

- 90-100 ..... A
- 80-89 ..... B
- 70-79 ..... C
- 60-69 ..... D
- 0-59 ..... F

**ACADEMIC HONESTY:** All work in this course must be completed in a manner consistent with NDSU University Senate Policy, Section 335: Code of Academic Responsibility and Conduct (http://www.ndsu.nodak.edu/policy/335.htm).

**SPECIAL ACCOMMODATIONS:** The *Americans with Disabilities Act* requires that reasonable accommodations be provided for students with disabilities or other special needs. Students eligible for special accommodations are strongly encouraged to share their concerns or requests with me at the beginning of the semester, or as soon as possible thereafter. I will be happy to make appropriate arrangements. For more information, please contact NDSU Disability Services at 231-8463, or go to http://www.ndsu.edu/counseling/disability.shtml

**CLASS ATTENDANCE:** Class attendance is expected. You are solely responsible for missed handouts or announcements made during lecture or recitation. If you are unable to attend a particular lecture, make sure that you stay informed regarding the information provided during that lecture.

You are welcome to discuss with me any questions or concerns about the course during my office hours or by appointment.