SYLLABUS

INSTRUCTOR: Cristina Popovici
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OFFICE HOURS: Th 9:00AM-10:50AM or by appointment
CLASS MEETS: 10:00AM-10:50AM MWF in Minard Hall, Room 209
WEB PAGE: http://www.ndsu.edu/pubweb/~popovici/Spring2010-Math751.html


COURSE DESCRIPTION: The course will present the basic theorems of integration, the integral on locally compact spaces, the Lebesgue-Radon-Nikodym Theorem, the Lebesgue Integral, the integration on product spaces, and spaces of integrable functions. Prerequisite: MATH 750 Analysis I.

COURSE OBJECTIVES: The main goal of this course is to provide a rigorous treatment of basic topics in Analysis which are at the core of graduate training in Mathematics. There will be a strong emphasis on conceptual understanding; problem-solving and proof-writing skills will also be developed.

HOMEWORK: Homework problems and their due dates will be posted on the course web page as we proceed. Your solutions to selected homework problems will be collected and graded regularly throughout the semester. The homework scores will be averaged and their average will count toward your final grade as described below. You are strongly encouraged to work on all the homework problems since this is the best way to ensure that you understand the material covered in class. You are not allowed to receive help on solving the homework problems from fellow graduate students or faculty members in the department. If you have any questions about the homework problems you are strongly encouraged to discuss them with me during my office hours.

EXAMS: There will be two 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, FEBRUARY 26, 2010
EXAM # 2 - FRIDAY, APRIL 23, 2010
FINAL EXAM - WEDNESDAY, MAY 12, 2010, 8:00AM-10:00AM
The two 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:

Homework Average: 20%
Exam # 1: 25%
Exam # 2: 25%
Final Exam: 30%

Your final grade for the course will be determined according to the following scale (out of 100):

- 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.*