MATH 445 in MS 569 L01 M.W.F. 9:00 Lab 01 T. 9:00 Winter 2009

Instructor: Jędrzej Śniatycki, MS 320. Office hour: Wednesday, 14:00 - 15:00 (by appointment only).

Text: R. Creighton Buck, Advanced Calculus, Third Edition, McGraw-Hill.

Homework: There will be 4 homework problems from the text assigned every week. Only one of them will be marked for credit of 3% per assignment. Total maximum 30%. For the list of assigned problems see next page.

Midterm (50 min) in class on Friday, February, 27. Credit: 20%.

Final Exam (3 hours) scheduled by the Registrar. Credit: 50%

Week	Section	Topics	Comments
Jan 12-16	1.1 - 1.4	Euclidean space	
Jan. 19-23	1.5 and 1.8	Basic topology	
Jan. 26-30	1.6 and 1.7	Sequences	
Feb. 2-6	2.1 - 2.6	Continuity	
Feb. 9-13	3.1 - 3.5	Differentiation	
Feb. 16-20	-	-	Reading Weak, no classes
Feb. 23 - 27	3.6	Extremal Problems	Midterm Feb. 27.
Mar. 2-6	4.1 - 4.3	Integration	
Mar. 9-13	4.3 - 4.5	Evaluation of integrals	
Mar. 16-20	5.1 - 5.5	Series	
Mar. 23-27	6.1 - 6.3	Uniform Convergence	
Mar. 30-Apr.3	7.1 - 7.5	Transformations	
Apr. 6-9	7.6 - 7.7	Implicit Functions	
Apr. 13-17		Reserve	
Apr. 20-30	-	-	Final Exams

Detailed Lecture Schedule

Homework Assignments

- Assignment 1 Due January 23 at 9:50. Sec. 1.4 problems 6, 8, 12, 16.
- Assignment 2 Due January 30 at 9:50. Sec. 1.5 problems 2, 19 and Sec 1.8 problems 1, 9.
- Assignment 3 Due February 6 at 9:50. Sec. 1.6 problems 14, 36 and Sec. 1.7 problems 6, 9.
- Assignment 4 Due February 13 at 9:50. Sec. 2.3 problem 6, Sec. 2.4 problem 5, Sec. 2.5 problem 12 and Sec. 2.6 problem 3.
- Assingnment 5 Due February 23 at 9:50. Sec. 3.2 problem 9, Sec. 3.3 problem 7, Sec. 3.4 problem 11 and Sec. 3.5 problem 3.
- Assignment 6 Due March 13 at 9:50. Sec. 4.2 problems 4, 8, 11 and 14.
- Assignment 7 Due March 20 at 9:50. Sec. 4.3 problems 2, 8, Sec. 4.4 problem 3 and Sec. 4.5 problem 7
- Assignment 8 Due March 27 at 9:50. Sec. 5.2 problem 11, Sec. 5.3 problem 5, Sec. 5.4 problem 9 and Sec. 5.5 problem 16.
- Assignment 9 Due April 3 at 9:50. Sec.6.2 problems 7 and 10, Sec. 6.3 problems 1 and 14.
- Assignment 10 Due April 9 at 9:50. Sec. 7.2 problems 11 and 12, Sec. 7.5, problems 2 and 3.