

Math 4410 – Advanced Calculus II
Section 1 Spring 2006

Information contained in this syllabus, other than the grading, late assignments, makeup work, & attendance policies, may be subject to change with advance notice, as deemed appropriate by the instructor. Changes will be announced in class.

Instructor: Sarah Brown
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Prerequisites: [Math 4400](#)
Text: *Working Analysis* by Jeffery Cooper
Other Materials: None
Fees: None
Class Meetings: 2-2:50pm MWF SC 129
Office Hours: MTWThF 3-4pm in SC 120

Course Description: A continuation of [Math 4400](#). Differential calculus of functions of several variables, differentiability of functions of several variables, vector differential calculus, integral calculus, line integrals, Green's theorem, simply connected domains, surface integrals, & Stokes' theorem.

Objective: Study differential calculus & differentiability of functions of several variables, vector differential calculus, integral calculus, line integrals, Green's theorem, simply connected domains, surface integrals, & Stokes' theorem. Learn applications of the above topics.

Grading:

Homework	450 points (30 assignments, 15 points each, lowest 4 assignments dropped)
Theorems	50 points (present two theorems in class)
Midterms	300 points (3 exams)
Final Exam	200 points

A	930-1000 (93%-100%)	B-	800-829 (80%-82%)	D+	670-699 (67%-69%)
A-	900-929 (90%-92%)	C+	770-799 (77%-79%)	D	630-669 (63%-66%)
B+	870-899 (87%-89%)	C	730-769 (73%-76%)	D-	600-629 (60%-62%)
B	830-869 (83%-86%)	C-	700-729 (70%-72%)	F	0-599 (0%-59%)

This class is 3 credits. Expect to spend at least 6 hrs on homework each week, i.e., 2 hrs for every hr of class. Homework is graded by selecting a few of the assigned problems. Work must be shown to get credit. You are encouraged to work in groups but may not copy others' homework. Copying solutions will result in 0 credit. **Homework is due by 5pm.** Late homework is not accepted unless there are extenuating circumstances as approved by the instructor. You are expected to be in class everyday although attendance will not be taken. Grades are posted periodically on WebCT.

University Policies: Scholastic dishonesty will not be tolerated and will be prosecuted to the fullest extent. You are expected to have read and understood the current issue of the student handbook (published by Student Services) regarding student responsibilities and rights, and the intellectual property policy, for information about procedures and about what constitutes acceptable on-campus behavior.

Students with medical, psychological, learning, or other disabilities desiring academic adjustments, accommodations or auxiliary aids will need to contact the Disability Support Center, Room 205D, Sharwan Smith Center, phone (435) 865-8022. The Disability Support Center determines eligibility for and authorizes the provision of these services and aids.