1. Instructor

Gordan Savin. Office: LCB 205. Office hours: MWF, 12:00 - 12:50.
http://www.math.utah.edu/~savin

2. Teaching Assistant

Problem session every Thursday, 10:45 - 11:35, in JWB 333.

3. Syllabus

The goal of this course is to cover (parts of) Chapters 11-14 in *Calculus* by Varberg, Purcell and Rigdon (ninth edition). In addition, there will be web-based homework assignments, using the program WebWorks. This program allows you to enter an answer multiple times, and will tell you if an answer is correct or not. There will be about 7-8 WebWork assignments. Every assignment will open at a fixed day of the week (to be determined), and you must complete the assignment by a fixed day of the following week. More details to follow.

The following is just a possible schedule. In particular, exam dates have not been fixed. The three in class exams will follow Chapters 11, 12 and 13.

Aug 27-31 11.3-5 Planes. Cross product.
Sep 05-07 11.5-6 Curves. Tangent lines.
Sep 10-14 2 × 2 matrices. Review, Exam I.
Sep 17-21 Eigenvalues and Eigenvectors. Conic sections. (Notes will be provided).
Sep 24-28 12.1-6 Differentiability. Chain rule.
Oct 01-05 12.7-8 Tangent planes. Min-max.
Oct 08-12 FALL BREAK
Oct 15-19 12.9 Lagrange multipliers. Review. Exam II.
Oct 29-01 Determinants. Change of variables. (Notes will be provided.)
Nov 05-09 13.4,7 Polar coordinates. Integration in $\mathbb{R}^3$.
Nov 12-16 Review. Exam III
Nov 26-30 14. 3-4 Green’s Theorem.
Dec 03-07 Catch-up/ Additional topic/ Review

FINAL EXAM: Thursday, December 13, 10:30 - 12:30 in our classroom.
4. **Grading**

The grade will be based on three components: WebWork Homework 10%, three in-class exams 20%, each, and the final exam 30%.

Each exam will be preceded by a sample exam, which should give you a very good idea about the topics and types of problems appearing on the exam.

5. **Tutoring**

For details see [www.math.utah.edu/ugrad/mathcenter.html](http://www.math.utah.edu/ugrad/mathcenter.html)