

Syllabus

Calculus III - V63.0123-2
TR: 8:55 am - 10:45 am
Room 433 - Waverly

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Office hours: (preliminary) TR, 11:00 am - 12:00 pm, in WWH Room 622.

Textbook: Multivariable Calculus by James Stewart, 4th Ed., Brooks/Cole.

Week	Sections	Topic
1	11.1-11.5	Parametric curves, arc length, area, polar coordinates.
2	13.1-13.7	Geometry of 3-space.
3	14.1-14.4	Introduction to vector calculus.
4	15.1-15.3	Functions of several variables, partial derivative.
5	15.3-15.5	More on partials, chain rule.
6	15.6-15.7	Grad, Max. and Min.
7	15.8, 16.1-16.2	Lagrange multipliers, double integrals.
8	16.3-16.5	More on double integrals.
9	16.6-16.8	Area, triple integrals.
10	16.9, 17.1-17.2	Change of variables, vector fields, line integrals.
11	17.3-17.4	More on line integrals, Green's theorem.
12	17.5-17.7	Curl and div, surfaces, surface integrals.
13	17.8-17.9	Stokes', divergence theorem.
14	REVIEW	

Grading: Midterm exam: 30%
Final exam: 40%
Quizzes: 10%
Homework & class participation: 20%