

# Math 281 Fall 2009 CRN 13712

## Syllabus - version 1

Office Hours: Monday, Wednesday, Friday 09:00-09:50 or by appointment

Meets MUWF 1400-1450 306 DEA

**Text:** MultiVariable Calculus 6th Edition James Stewart (Thomson Brooks/Cole) is the preferred textbook. However the 5th Edition of the textbook is equally acceptable (although if you are planning to take another course in this sequence you probably should buy the 6th Edition as your next instructor might not let you use the 5th Edition). Homeworks will be assigned using [WEBASSIGN](#) (use your UO email name -- you can change the password and have the new one emailed to your uoregon address name@uoregon.edu).

You will need to buy access to WEBASSIGN - more details will be furnished in class.

**Organization.** Homework is probably the most important activity in the course in terms of helping you internalize the material.

Homework will be due each Tuesday on the material of the previous week. The Monday class period will be a discussion section for the homework to be due the subsequent day by 0800 - there will be a quiz the last 20 minutes of class most Monday's.

**Homework:** The homework will be assigned and graded using the [WEBASSIGN](#) system. It is due at 0800 PST Tuesday morning following the week for which it was assigned. Sample assignments for the first 4 weeks are posted below to give you a feel for them. But they are samples only. Homeworks will be available to view 2 weeks before they are due. The text on Webassign is the full Stuart. We are only using the multi-variable part.

### **Grades:**

100 points Homework and Quiz Average (The 2 lowest scores from the combined list of HW and QZ scores will be dropped)

100 points Exam #1 Tuesday 20 October 2009

100 points Exam #2 Tuesday 17 November 2009

200 points [Final Exam](#) Thursday 10 December 2008 15:15 AM

**According to faculty legislation, final exams may not be given early under any circumstances.**

Your final grade will be assigned on the basis of the total point

score of 500 points. Any student getting at least a B on the final will receive at least a C- in the course. You must bring your photo ID to all exams. You may bring a 3x5 inch index card with any formulas on it to any exam or quiz if you wish. Similarly, you may bring with you a hand held graphing calculator to any exam or quiz if you wish.

**Teaching Associate:** [Ekaterina Puffini](#)

See [Academic Calendar](#)

## Reading and homework Assignments

I have provided PDF files giving sample homework assignments for the first few weeks. The actual homeworks use a "randomizing" feature so your problems may vary slightly. You must purchase the "enhanced web assign" to take this course -- you can either pay online or get a card from the UO bookstore. There is a "grace period" of about 2 weeks during which you can use web assign without paying, but after that you won't be able to use web assign and turn in homework until you have paid.

0. [Week 1](#) 29 September - 2 October 2009. Read Sections 13.1 (3-dim coord systems), 13.2 (vectors), and 13.3 (dot products).
0. [Week 2](#) 5 October - 9 October 2009. Read Sections 13.4 (the cross product), 13.5 (equations of lines and planes), and 13.6 (cylinders and quadratic surfaces).
0. [Week 3](#) 12 October - 16 October 2009. Read Sections 14.1 (vector functions and space curves), and 14.2 (derivatives and integrals of vector functions)
0. [Week 4](#) 19 October - 23 October 2009. Read Section 14.3 (arc length and curvature). Exam Tuesday 20 October
0. [Week 5](#) 26 October - 30 October 2009. Read Sections 14.4 (motion in space, velocity, and acceleration), 15.1 (functions of several variables), and 15.2 (limits and continuity).
0. [Week 6](#) 2 November - 6 November 2009. Read Sections 15.3 (partial derivatives) and 15.4 (tangent planes and linear approximations).
0. [Week 7](#) 9 November - 13 November 2009. Read Section 15.5 (the chain rule) and Section 15.6 (directional derivatives and the gradient vector).

0. [Week 8](#) 16 November - 20 November. Read Section 15.6 (directional derivatives and the gradient vector). Exam Tuesday 17 November.
  - . [Week 9](#) 23-25 November 2009. Read Sections 11.10 (Taylor and Maclaurin series) and Section 15.7 (maximum and minimum values) and Section 15.8 (Lagrange multipliers).
0. [Week 10](#) 30 November - 4 December 2009. Read Section 15.8 (Lagrange Multipliers).  
Week 11 16-20 March 2009. Final exam Monday 7 December 2009 at 10:15 AM.