

**Course information****Class:**

Section 1: MWF 9:10 – 10:10 AM, Ford 302

Section 3: MWF 1:50 – 2:50 PM, Ford 201

**Professor:**

Peter T. Otto, Ford 214, potto@willamette.edu, 370-6487

**Course webpage:** <http://www.willamette.edu/~potto/Fall09/Math249/>**Scheduled office hours:**

Mondays	Tuesdays	Wednesdays	Thursdays	Fridays
	10:00 – 11:00 AM		3:00 – 4:00 PM	3:00 – 4:00 PM

If these times do not work for you, please let me know; I'm also available by appointment.

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**Textbook:** *Multivariable Calculus, Early Transcendentals*, 5th Edition, by James Stewart, Thomson Brooks/Cole, 2003.**Calculators:** While calculators will not be allowed in exams, a graphing calculator will be helpful for homework exercises.**Exam schedule (tentative):**

Exam 1 (chapters 12): Friday, Sept. 18

Exam 2 (chapter 14): Friday, Oct. 9

Exam 3 (chapter 15): Friday, Oct. 30

Exam 4 (chapter 16): Friday, Nov. 20

Final exam: Section 1 - Saturday, Dec.19, 2009, 8-11 am

Section 3 - Thursday, Dec.17, 2009, 2-5 pm

**Other important dates:** Last day to add/drop: Sept. 15, last day to withdraw: Nov. 6.

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**Overall goals of the course:**

- Learn the mathematical content of Multivariable Calculus through (a) listening to class lectures, (b) completing exercises, (c) discussing the subject matter with others, and (d) presenting exercises in front of an audience.
- Be introduced to the concept of rigorous mathematical proofs, which is at the heart of advanced mathematics.
- Improve one's (mathematical) writing and public speaking skills.

**Mathematical content of the course:** Topics covered in this course include, but limited to, (a) two and three dimensional coordinate systems, (b) vectors and vector-valued functions, (c) functions of two and three variables, (d) differentiation and integration of functions of multiple variables.

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**Class participation:**

You are expected to actively participate in class by asking questions and contributing to discussion. In addition, each student is expected to present solutions of class exercises on a regular basis. Your class participation grade will be determined by my overall impression on your day-to-day work.

**Homework:**

There will be homework assignments collected and graded on Mondays and Fridays. You are encouraged to work with others in understanding the material and discussing the exercises. No late homework will be accepted but about fifteen percent of your lowest homework scores (or ones you missed) will be dropped.

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**Total scores:**

Your cumulative score will be determined as follows:

participation/homework: 15 %

exams: 15 % each

final exam: 25 %.

**Course grades:**

Course grades will be assigned at the end of the semester after all cumulative scores are known. I expect that students with an average of 90 % or higher will get at least an A-, 80 % or higher will get at least a B-, etc.

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**Opportunities outside the classroom:**

**Department colloquia:** You are required to attend two of our Department colloquia, held certain Thursdays 4:00 – 5:00 pm in Ford 201. Upcoming colloquia are advertised at <http://www.willamette.edu/cla/math/colloquia/index.php>

**Problems of the Month contest:** You are encouraged to participate in the Department's Problem of the Month contest.

**Tutor lab:** The Mathematics department offers open tutoring for students enrolled in 100 and 200 level courses. The hours of the tutor lab are 6:30 – 9:30 pm, Sunday – Thursday and are held in the math hearth (space outside faculty offices).