

**MATH 2720**  
**Multivariable Calculus, Winter 2015**

**Instructor:** Sasho Kalajdzievski  
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**Office Hours:** Mondays **10:20-11:20**, Tuesdays **11:45-12:45**

**Text:** Multivariable Calculus, or Calculus Early Transcendentals by James Stewart, Seventh Edition.

**Evaluation:** The final grade will be calculated according to the following formula:

1. Two midterm tests, each 20%.

Tentative dates:

Test 1, Thursday, February 5<sup>th</sup>, 5:30-6:30

Test 2, Thursday, March 12<sup>th</sup>, 5:30-6:30

2. A final exam given in April, worth 60%.

3. Unannounced in-class mini tests for a bonus of up to 5%.

**Course Outline (based on Early Transcendentals; Multivariable Calculus has the same chapters, but the numbers are by 1 higher):**

Review (sections 12.1 - 12.5); this will be done briefly; students are responsible to do the review on their own

12.6 Quadric Surfaces

13.1-13.3 Vector Functions, Derivatives and Integrals of Vector Functions, Arc Length, Curvature

13.4 Motion in Space (briefly)

14.1-14.8 Functions of several variables; this chapter is the core of the course.

15.1-15.6 Double Integrals (Sections 15.5 and 15.6 will be covered partially).

16.1-16.4 Vector Fields, Line Integrals and Greens Theorem (time permitting).

**Voluntary Withdrawal:** March 19, 2015 is the last date for voluntary withdrawal .

**ADDITIONAL NOTES**

1. Voluntary withdrawal deadline is **March 19**.

2. If you miss the midterm, you will be assigned a mark of zero unless reasons and acceptable supporting evidence are provided.

**Web pages:** Links to all the web pages related to this course, this sections, can be found here:

<http://server.maths.umanitoba.ca/homepages/sasho/>