Syllabus: Math 233H, Calculus-3, UNC 2018 Fall

Calculus 3: multivariate calculus: vector functions, differentiation (partial, directional, total), optimization, integral (geometric and physical applications), line integrals, curl, divergence, Green, Stokes, and divergence theorem.

**Meeting time:** Tu, Th 12:30-1:45, PH-385

**Instructor:** Richard Rimanyi, CP-429, [rimanyi@email.unc.edu](mailto:rimanyi@email.unc.edu)

**Class website:** rimanyi.web.unc.edu/math233H-2018-fall/ (no sakai will be used)

**Piazza**: piazza.com/unc/fall2018/math233 . This is a website where you may ask questions, make comments on the material, see other students’ questions/comments/responses. Instructors and TAs will respond to most questions. You will also find practical information on office hours, TAs, etc.

**Office hours**:

* General Calculus-3 office hours: M, W: 5-6pm in PH-215
* R. Rimanyi.: T,Th 3:15pm in CP-429

**Math Help Center: the math department official walk-in tutoring center:** [**https://math.unc.edu/undergraduate/math-help-center/**](https://math.unc.edu/undergraduate/math-help-center/)

**Texts**: J. Stewart: Calculus, multivariate calculus, 18th edition

**Prerequisites**: math232 Calculus-2

**Recitations**: TA Arnold Russel, Mondays. In recitations you will work out examples relevant to the topic we are learning in class. Some of those problems you hand in and the TA grades them.

**WebAssign HW:** class-key: unc 7975 2290 . No late HW is accepted; the two lowest WA homework grade will be dropped.

**Final exam** will be given in compliance with UNC final exam regulations and calendar (Friday, 7th of December, 8-11am). This is the C*ommon Math233 Final* day and time, but the 233H final will be different from the ordinary math233 final.

**Midterms.** There will be 2 midterms announced about two weeks in advance. There will be no make-up midterms.

**Grading** will be based Midterms (2 x 20%), Final (40%), Recitation grade (10%), and WebAssing HW (10%). I expect that 90% will earn an A, 80% a B, etc. The Final grade (if higher) can replace the lowest midterm grade.

Reading the textbook itself is not sufficient. You will need to review your class notes regularly. It is also very important that you work many problems every week beyond the HW problems. Group study is encouraged; questions in class are also encouraged.

It is expected that each student will conduct him or herself within the guidelines of the UNC **Honor System**.

The instructor reserves the right to make changes to the syllabus. These changes will be announced as early as possible.