

# Math 113, Fall 2015

**Dr. Sarah Raynor**

**Textbook:** Multivariable Calculus; seventh edition; James Stewart; ISBN 978-0538-49787-9. If you have an earlier version of the text, be sure to make sure you are doing the correct homework questions each week.

**Office:** Manchester 343

**Office Phone Extension:** 4466

**Office Hours:** Mondays 2-3:30pm, Tuesdays 1-2pm, Thursdays 4-5pm and Fridays 1-2pm. Please feel free to come by my office at any time, but you may want to email ahead to be sure that I am available.

**Email:** raynorsg@wfu.edu

**Course Website:** <http://www.wfu.edu/~raynorsg/math113.html>. This course will also use Sakai: <http://sakai.wfu.edu>.

**TA:** Our TA this semester will be Hassan Nasif. There will also be help sessions run by the Math Center Mondays-Thursday from 7-9pm. Please also note that you can get individual help by appointment in the Math Center, Manchester 354. The Math Center is open from 5-9pm on Sundays and 12-5pm and 6-9pm Monday-Thursday.

**Course:** This course will cover multivariable calculus thoroughly, including vectors, differentiation, and integration, as well as the calculus of vector fields. We will cover chapters 12-16 of the text. Please note that this course will use the computer program Maple extensively. You will learn how to use the program as part of the course. Be sure that your laptop is able to run Maple and contact me ASAP if you have any problem running Maple.

**Assignments:** There will be three types of assignments in the course.

1. **Daily Assignments:** Before each lecture you will be expected to complete a brief homework assignment using the online homework system Webassign. You must complete the assignment and submit your responses online by 9:00am on the day they are due. Late responses will not receive credit.
2. **Homework:** There will be weekly problem sets. You are expected to turn in clear, legible solutions which explain each step of your work. Assignments will be posted on the course website each week on Wednesday, and due at the beginning of class the following Wednesday.
3. **Group Assignments:** You will be assigned to a group of 3-4 students. We will complete primarily computer-based worksheets in class on Wednesdays. You must be present in class to receive credit.

**Tests:** The course will have two in-class exams. The tentative dates of the exams are Wednesday, September 23 and Thursday, October 29. You must contact me by September 1 if you will have any conflicts with these dates. Otherwise, you may miss the exam only in the case of serious illness or emergency. The course will have a final exam at 9:00pm on Saturday, December 12.

**Evaluation:** There are 6 components of your final grade.

- The two 50 minute in-class exams are worth 20% of your grade each, for a total of 40%.
- The three hour final exam is worth 35% of your grade.
- The daily homework is worth 5% of your grade.
- The written weekly homework is worth 10% of your grade.
- The in-class group work is worth 5% of your grade.
- Positive participation in class is worth 5% of your grade.

### **Important Notes**

- No late assignments will be accepted, and makeup exams will not be given. Should you be forced to miss an assignment or exam due to a legitimate excuse, it will not count toward your grade. This will have the effect of making your other assignments or exams worth more.
- When completing the weekly homework you are permitted to work with other students and to speak with myself and the TA. You are expected to write up your solutions yourself and are not permitted to copy solutions from any source, whether it be another student or a website. Any copying will prevent you from being properly prepared for the exams, and copying is also an Honor Code violation and will be prosecuted as such. See the attached sheet for more detail.
- Please contact me ASAP if you will need to miss class due to a university-sponsored activity, such as athletics. Also, if you have a disability that may require an accommodation for taking this course, please contact the Learning Assistance Center (758-5929) within the first two weeks of the semester.
- This course will use Sakai and Webassign extensively. Please make sure that you can access the course Sakai and Webassign sites as soon as possible. Talk to me if you need help using Sakai or Webassign.