MATH 2204  Introduction To Multivariable Calculus  Fall 2015

Prerequisite: Math 1226. If you have credit for Math 1224 or Math 1206, you should take Math 2224, NOT Math 2204.

CRN (course request number): 89473
Class meeting time: MWF 10:10 am – 11:00 am, in GOODWIN 145.

Instructor: Honghu Liu  Office: 468 McBryde Hall
E-mail Address: hhliu@vt.edu  Course web: https://scholar.vt.edu

Office Hours: M: 1:30 – 2:30 pm, W: 3:00 – 3:55 pm, Th: 2:30 – 3:30 pm or by appointment

Final exam time: Wednesday December 16, 7:00 – 9:00 pm. Final exam room: TBA.

IMPORTANT: The final exam is a required class meeting that will not be rescheduled for discretionary reasons, including conflicts with work schedules, with classes and exams at other colleges, and travel. In particular, if you simultaneously take courses at NRCC, you need to check at the beginning of the semester that they will not have a conflict because the Math Department will NOT accommodate such a conflict.

Special needs: If you need adaptations or accommodations because of a disability (learning disability, attention deficit disorder, psychological, physical, etc.), or if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible.


- **If you already purchased the 7th Edition** for 1225 or 1226 during a previous semester at Virginia Tech, you do NOT have to buy the new edition and can use your current WebAssign account. Sometime during the second week of classes, your WebAssign account will be automatically upgraded (at no charge) to allow you to view the 8th edition of the textbook online and access assignments with 8th edition WebAssign problems. Until the upgrade occurs, you can access the textbook and assignments using the WebAssign trial period.

- **If you do not already have the textbook and WebAssign code** from a previous calculus course here at Virginia Tech, it will likely be cheapest for you to buy a new textbook bundled with the WebAssign code. Do not purchase WebAssign or the textbook through WebAssign's website. The university bookstore has a better price.

Here are the textbook bundle purchase options available at the on campus bookstore. All three options include lifetime of edition electronic access to the textbook and a WebAssign code which is required for the class. **Any of these 3 textbook options will be sufficient for the course.**

1. Electronic Book Bundle contains - WebAssign code w/eBook - $80.20
2. Loose Leaf Bundle contains - Loose Leaf Book w/WebAssign code w/eBook - $104.30
3. Hardback Bundle contains - Hardback Book w/WebAssign code w/eBook - $149.75

There is a two week grace period for the use of WebAssign in the course but in order to access the system after that you need a purchased WebAssign code. You will automatically be added to the WebAssign course and so you do not need a class code. If you do not have a WebAssign account from a previous calculus course taken at Virginia Tech you will receive instructions on how to setup your WebAssign account via your primary Virginia Tech email account based on your PID.

**Course content:** Math 2204 is an introduction to vector geometry, and differentiation and integration in multiple dimensions. The [Syllabus](https://scholar.vt.edu) contains a detailed listing of the covered material.

**Grading:** The numerative grade will be based upon

1. **Homework:** 20% (10% written part, 10% WebAssign)
2. **Three tests:** 20% each
3. **Final exam:** 20% (10% common final, 10% my final)

The course grade will be assigned as follows:

- 90 guarantees an **A**
- 80 guarantees at least a **B**
- 70 guarantees at least a **C**
- 60 guarantees at least a **D**

**Homework policy**

**WebAssign assignments:** Access to WebAssign is included with the purchase of your textbook (see above). On the online WebAssign assignments, you will be allowed three submissions for each free response question and two submissions for each multiple-choice question. The sum of your highest per question scores will determine the grade on your WebAssign assignment. If you have not used WebAssign before there will be a learning curve. To help learn how to use the system there is a graded "Getting Started with WebAssign" homework assignment that is **due Friday August 28**. For this assignment only you will be allowed 100 submissions per question. If you add the course late, please contact me and I will give you an extension to complete this important assignment. Additional helpful information regarding the use of WebAssign can be found [here](https://scholar.vt.edu). Your lowest WebAssign homework grade will be dropped.

**Written homework assignments:** Homework problems and due dates for homework assignments will be announced at class and posted on scholar ([https://scholar.vt.edu](https://scholar.vt.edu)). **Submitted work should not only give the correct answer but also clearly delineate the logic justifying the answer.** NO CREDIT SHOULD BE EXPECTED FOR CORRECT ANSWERS IF NO WORK IS SHOWN. Only selected problems will be graded; and these problems will not be announced in advance. Homework is due at the start of class on each due date. Your lowest written homework grade will be dropped.
Late homework:
- **WebAssign**: Only a documented absence of several days will be considered as an excuse. In that case, I may extend the deadline for your WebAssign assignment.
- **Written homework**: Late written homework is subject to a penalty (20%) if handed in before the next class. Beyond that, late homework is not accepted. Legitimate documentation is required to avoid a penalty or a zero grade for a late homework.

Allowed help on homework: Students can discuss homework with each other, and also get help from Tutoring Services. However, copying a solution from a solution manual or any other source is prohibited. For written work to be handed in, every student certifies that it represents the student’s own understanding of the material expressed in the student’s own words.

Test and exam policy: The tests and the final exam problems are in the style of the homework and are graded with partial credit. All in-class exams are closed book and closed notes. Calculators are not permitted on the tests and final exam. NO make-ups will be given. If a test cannot be taken as scheduled, this should be communicated to your instructor as early as possible. **To avoid a zero grade you must provide documentation, from the appropriate university office, that shows that you had a valid reason.** For an excused absence, the final exam score will be substituted for the missed test score. One excused absence is allowed, beyond that you will receive a zero for any missed test.

Attendance: Attendance will be taken each class period. You are responsible for all material, announcements and assignments that you miss in class. Students with full attendance will be given 1 extra point on the final exam.

Grading appeals: Appeals for points, partial credit, incorrect score, missing scores on Scholar, etc., should be brought to my attention within one week of return of the assignment.

Honor system: You must abide by the Virginia Tech Honor Code for all graded work. All tests and quizzes must be entirely the student’s own work. Copying a solution from any source for a test or homework assignment is prohibited. Under the Honor Code, it is the responsibility of each student to consult with his teacher, if necessary, to ensure that the student understands exactly how the Honor Code applies to each piece of graded work.

Resources available: There are many resources available to you if you are having difficulty with the course, besides coming to my office for individual help. The math tutoring lab is open 4:30pm to 9:30pm Sundays through Thursdays in the Math Emporium. The Student Success Center offers individual tutoring by appointment for many subjects. Information about private tutoring can also be found here. Make sure to read the Math 2204 homepage and the course scholar site regularly.

From the Math Department: If you are not on the class roll that comes out after the last add date, immediately check your schedule and start attending the proper section. For no foreseeable reason will you be allowed to stay in the wrong section or to drop a section for which you are actually enrolled after the last drop date. By simply attending a section you will not be placed on its roll.