MATH 2204  Introduction To Multivariable Calculus  Fall 2015

CRN: 88336  (12:20 pm – 1:10 pm MWF in WLH 320)
     88334  (2:30 pm – 3:20 pm MWF in Gym 124)

Instructor: Diane Agud
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E-mail Address: dagud@math.vt.edu
Office Hours: Monday - Friday: 9:30 – 11:00 a.m.
             Tuesday & Thursday: 12:15 p.m. – 1:15 p.m.
             Or by appointment

CATALOG DESCRIPTION: Calculus for functions for several variables. Planes and surfaces, continuity,
differentiation, chain rule, extreme values, Lagrange multipliers, double and triple integrals and applications,
software-based techniques. Partially duplicates 2016, 1224 and 2224.

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


• If you already purchased the 7th Ed. 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.

CONTENT: We will cover the material listed on the syllabus. Any changes will be announced in class.

TESTS: There will be three in class, closed book, and closed notes tests. These tests will count for a total of 60%
of your final grade. Test dates will follow, as close as possible, the course syllabus. Tests are usually given outside
of class time in the evening, most likely a Friday evening. You must take tests on the specified date. NO make-ups
will be given. If you will miss a test due to a University sponsored activity you must make arraignments beforehand
to take the test. A note from a coach verifying this absence is required. For an excused absence, the final exam
score will be substituted for the missed test score. If you request an excused absence from a test, you must phone
or see me on test day, and present me with a written excuse within three calendar days. Excused absences will include severe illness or death. Being unprepared is not an excused absence. One excused absence is allowed, beyond that you will receive a zero for any missed test.

**WRITTEN HOMEWORK/QUIZZES:** Read each section and do homework daily as assigned. Students are encouraged to work together on daily homework; copying of work a solution manual or any other source is not permitted. Certain homework assignments will be collected at announced and unannounced times. Quizzes may be announced or unannounced, in-class or take-home and individual or group assignments. Students may not work together on take-home assignments, unless otherwise specified (group quiz). Attendance is a requirement for receiving credit on homework/quiz assignments. Students must be present the day the assignment is given and present on the day the assignment is collected. Assignments are due at the beginning of class. No late work will be accepted. A grade of zero will be assigned for any paper not on time. Collected homework and quizzes count for a total of 12% of your final grade. At least one homework or quiz grade will be dropped.

**WEBASSIGN HOMEWORK:** The online part will be delivered using WebAssign. Access to WebAssign is included with the purchase of your textbook (see above). You will be allowed three submissions for each free response question and two submissions for each multiple-choice question on the WebAssign homework assignments. The sum of your highest per question scores will determine the final grade on the 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 unlimited submissions per question. If you add the course late, 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. WebAssign homework counts for a total of 8% of your final grade. At least one WebAssign homework grade will be dropped.

**ATTENDANCE:** Attendance will be taken each class period. Students are expected to attend every class meeting and to arrive on time. To be considered present, a student must be in class and working until dismissed. Each student must personally sign the attendance sheet each lecture class period for attendance credit. Attendance is a requirement for receiving credit on homework/quiz assignments. An absence, due to a University sponsored activity, will not be counted toward the quiz policy provided that written verification from a coach or University sponsor is sent to me. If a student is absent from class, he/she is responsible for all material, announcements and assignments missed.

**FINAL:** The two part final examination is a comprehensive final exam, which counts for 20% of your final grade. The common part, common to all sections, is NOT written by me, and is multiple choice. The section specific part of the final exam is written by me. The Math 2204 final exam will be on Wednesday, December 16, 2015, 7:00 p.m. - 9:00 p.m. The location of the final exam will be announced toward the end of the semester. The final exam is a required class meeting that will not be rescheduled for discretionary reasons, for example, conflicts with work schedules and with classes and exams at other colleges. Students simultaneously taking courses at NRCC should check at the beginning of the semester that they will not have a conflict because the Math Department will NOT accommodate such a conflict.

**GRADING:** For 90% of the total you will receive at least an A-, 80% a B-, 70% a C-, 60% a D-. Plus and minus grades will be assigned at my discretion.

**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, homework/quiz assignment or Matlab worksheet is prohibited. A student’s name on a group assignment signifies both that the student contributed significantly to the work on the assignment and that all of what is on the assignment accurately represents the student’s own understanding of the material. 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. Koofers may not be used.

**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 Sunday through Thursday. The Student Success Center offers individual tutoring by appointment for many subjects. Information about private tutoring can be found [here](#). Make sure to read the Math 2204 homepage and the course scholar site regularly.

The use of commercially purchased notes (selling and buying) will not be permitted in this class. Any violation of this policy will be considered an Honor Code Violation. Recording of lectures is not permitted without prior consent from the instructor.

Any student with special needs or circumstances should feel free to meet with me during office hours.

Exceptions to the attendance and make-up policies will be made in the event of serious illness or personal emergency at my discretion. If such a situation arises, please be sure to contact your dean’s office and me; I will receive a letter from the dean’s office explaining the circumstances.

**IMPORTANT:** If you are not on the class roll that comes out after the last add date, immediately check your schedule at a terminal and start attending the proper section. For no foreseeable reason (computer and registrar personnel mistakes included) 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.

**IMPORTANT DATES:**
- **Last Day to Add Classes:** Friday, August 28, 2015
- **Labor Day:** No classes
- **Last Day to Drop Classes Without Grade Penalty:** Friday, October 2, 2015
- **Fall Break:** Friday, October 16, 2015
- **Last Day to Resign Without Grade Penalty:** Monday, October 19, 2015
- **Deadline for Undergraduates to request rescheduling of final examinations that conflict or constitute a third exam in 24 hours (see your Academic Dean):** Friday, November 20, 2015
- **Thanksgiving Break:** Saturday, November 21, 2015 – Sunday, November 29, 2015
- **Last Day to Apply for W grade policy/Course Withdrawal:** Friday, December 9, 2015
- **Classes end:** Wednesday, December 9, 2015
- **FINAL EXAMINATION:** Wednesday, December 16, 2015, 7:00 p.m. - 9:00 p.m.