Math 215-080 Fall 2009 Course Information Calculus III o Prof. Gavin LaRose

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- ♦ MWF 2:00pm-3:00pm, 260 Denn Thu lab, B735 EH
- ♦ Text: Calculus by Stewart, 6th ed.
- ♦ Instructor: Gavin LaRose (glarose@umich.edu)
- ♦ Office Hours: Tue 3-4pm (Math Lab, EH B860); Mon, Wed 3:30-4:30pm (EH 3832) + by apptment
- ♦ GSI: Alex Mueller (amuell@umich.edu)
- Web: http://www.math.lsa.umich.edu/courses/215/
 &: http://www.math...edu/~glarose/classes/calcIII/
- ♦ WebHW: see course page; (10% of grade)
- ♦ WrittenHW: see course page; (10% of grade)
- ♦ Exam 1: Thu, 10/22, 6-7:30pm (25% of grade)
- ♦ Entrance G/W Deadline: Fri, 10/30, 4PM tentative (not passing the gateway is a letter grade penalty)
- ♦ Exam 2: Thu, 11/19, 6-7:30pm (25% of grade)
- ♦ Final: Thu, 12/17, 10:30am-12:30pm (30% of grade)

- What is calculus III? In calculus I and II we learned about rates of change and how they accumulate. In calculus III we extend this to functions of more than one variable. We learn, therefore, about functions of multiple variables, how they are represented, their geometry, and how the ideas of calculus apply to them. □
- \bullet Why take it? In the real-world, many things require multiple variables to describe them: time and space variables, for example. In addition, the generalization of calculus to functions of multiple variables is both useful and mathematically beautiful. Calculus III is therefore essential to understanding of applied science and advanced mathematics courses. \Box
- How will you do well in the course? The only way to learn math is by doing it. Do the homework (all of it!). Read the book (care-

fully!). Do the Labs. Do the in-class activities. Above all, Ask Questions!—you're here to learn, so ask questions when you don't understand! \Box

Important Course Policies:

Course Philosophy

♦ Exams: Exam dates and times are ab- ♦ This course emphasizes Conceptual Understanding and (in-
solutely firm. Travel plans will not be contelligent use of) Technology. This is because
sidered an excuse to take an examination on a \rightarrow Conceptual understanding means that you really known
different day or at a different time. If you have what we're learning—that you will be able to use it, and
a course that conflicts with an exam time, be sure \Box the skills you gain from the course, later. \Box
to tell me as soon as possible. \square \longrightarrow Technology is ubiquitous, and allows us to see
\diamond More on Exams: No calculators or note cards are relationships and explore concepts that would oth-
allowed on exams. This is an issue of fairness: we want erwise be inaccessible. This is particularly im-
all students to have the same resources on the exams. portant in calculus III, where we study mathe-
There will be a provided formula sheet, however. \Box matics that is hard to work with and visualize
\diamond Labs: Every week you will meet in B735 for a lab. Most without technology. By using technology we
weeks you will work on a $Maple$ exercise that will prepare you — will learn $more$ and $better$. \square
to work the written homework. \Box \diamond To learn, you must be engaged both in
\diamond Written Homework: Written homeworks are due approximately class and lab. Participate! Ask ques-
weekly, in lab, and are 5–10 problems long. \square tions! \square
\diamond Web Homework: Web homework assignments are due approxi- \diamond I think math and learning are fun.
mately weekly, most on Saturday at $11:59 \mathrm{pm}$. \square This course will require a lot of
\diamond Gateway: Failure to pass the gateway will result in your final grade — work both in and out of class
for the course being reduced by a full of a letter grade. However, I expect (plan on 8 hours a week out of
everyone in our section to pass the gateway. More information on this will class!), but I hope at the end
be forthcoming. \Box of the semester you will feel
♦ Special Arrangements: If you have a documented disability requiring spe- you have learned and had
cial accomodations, please inform me as early as possible prior to needing the fun.
accomodation (e.g., prior to an exam)—at least two weeks in advance. \square No, really. \square

Other Help? If you have questions about anything in the course, please ask me! The math department also offers free, $walk-in\ tutoring$ in the Math Lab (East Hall, B860) M-F 11am-4pm and Su-Th 7–10pm. \Box