Math 116-028 Winter 2008 Course Information
Calculus II ∘ Prof. Gavin LaRose

Essential Info:
- ◇ TuF 11:30am–1:00pm, 621 Denn
  Th 11:30am–1:00pm, 613 Denn
- ◇ Text: *Calculus* by Hughes-Hallett, et al., 4th ed.
- ◇ Instructor: Gavin LaRose (`glarose@umich.edu`)
- ◇ Office Hours: Th 3–4pm (Math Lab, EH B860); Tu 1:30–2:30pm, W 10–11am (EH 3832) + by apptment
- ◇ Web: `http://www.math.lsa.umich.edu/courses/116/`
  &: `http://www.math...edu/~glarose/classes/calcII/`

- ◇ Entrance G/W Deadline: Mon, 1/28, 10PM
- ◇ Exam 1: Mon, 2/4, 6–7:30pm (25% of exam grade)
- ◇ Integral G/W Deadline: Fri, 2/22, 4PM
- ◇ Exam 2: Tue, 3/18, 6–7:30pm (35% of exam grade)
- ◇ Final: Tue, 4/22, 8–10am (40% of exam grade)
- ◇ Section component: (team hw, quizzes, homework) up to 1/3rd letter grade shift to exam grade. c.f. `http://www.math.lsa.umich.edu/courses/sg/`

● *Why calculus II?* Because calculus is about what really happens in the world: *how things change* (*derivatives*) and *adding change up* (*integrals*). In calculus II we see where these ideas really lead us. Between the two we are able to describe an astounding amount of both mathematics and the real world: physical, environmental and social problems, advanced mathematics like sequences and series, and more. □

● *How will you do well in the course?* The only way to learn math is by doing it. **Do the homework**. **Read the book**. Work the example problems in the book. **Do the team homework** (really—these are the hard problems you need to be able to solve for the exams!). **Participate in class**. Above all, **Ask Questions!**—a lot of money is being spent for you to take this class: the whole point of that investment is to learn. So ask questions if you don't understand anything! □

Important Course Policies:

◇ *Exams*: Exam dates and times are *absolutely firm*. Travel plans *will not* be considered an excuse to take an examination on a different day or at a different time. If you have a course that conflicts with an exam time, be sure to tell me as soon as possible. □

◇ *More on Exams*: On all exams standard graphing calculators (equivalent to a TI-84) are allowed. However, you may be required to show your work when doing calculations we have learned in this class, and features of more advanced calculators may be forbidden. You may bring one $3'' \times 5''$ notecard (written on both sides) to each exam. □

◇ *Gateways*: Failure to pass either of the two gateways will result in your final grade for the course being reduced by 1/3 of a letter grade (per gateway you did not pass). However, I expect *everyone* in our section to pass both gateways—plan on starting the entrance gateway on Jan 7 and the integral gateway on Feb 6! □

◇ *Calculators*: You need a TI-84 or equivalent calculator, because we will be making active use of technology in class. If you have a different model you may have to figure out how to use it yourself. Except as otherwise noted you may use your calculator on all homework and exams (but not gateways). □

◇ *Special Arrangements*: If you have a documented disability requiring special accomodations, please inform me *as early as possible* prior to needing the accomodation (e.g., prior to an exam)—at least two weeks in advance. □

Course Philosophy

◇ This course emphasizes *Conceptual Understanding*, (intelligent use of) *Technology*, and *Cooperative Learning*. This is because

→ Conceptual understanding means that you *really know* what we're learning, and will be able to use it and the skills you gain from the course when you need them later. □

→ Technology is ubiquitous, and allows us to see relationships and explore concepts that would otherwise be inaccessible. □

→ Working in teams means we *Learn More* than we otherwise would: we learn by explaining what we know, and by hearing others explain things to us. □

◇ I think *math and learning are fun*. This course is a 4 hour course and will require a lot of work both in and out of class (plan on doing all the work and spending 8 hours a week on it! Really!), but I hope at the end of the semester you will feel you have learned and had fun.

No, really. □

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. □

"You have to respect someone who can spell Tuesday, even if they can't spell it right."   —*A.A. Milne*