Calculus at Pitt

An introductory guide to the typical calculus courses offered by the mathematics department at the University of Pittsburgh
Contents

• Calculus 1: Introduces limits, continuity, derivatives, and finally antiderivatives & integration

• Calculus 3: Multivariable Calculus including vectors, the chain rule, Lagrange multipliers, surface & line integrals

• Calculus 2: Whatever doesn’t fit: Diff. Eq.’s, polar coordinates, parametric curves, sequences & series, vectors
Contents: Bizz-Calc

- Designed for business majors. Different book & software (Webworks)
- There is a lot of material covered
- Includes logarithmic and exponential functions, but not trigonometric functions
Problem Areas

- Calc 1: Functional notation, related-rates, optimization, curve sketching
- Calc 2: Work and hydrostatic pressure, area & volume integrals, sequences & Series
- Calc 3: Planes & quadric surfaces, triple & double integrals, vector calculus, Lagrange Multipliers
- Business Calc: Multivariable calculus, optimization, and partial derivatives
Expectations of Students

- Most Engineering students are required to take Calc 1-3
- Many students are not math or engineering majors
- Students have different backgrounds: Commuters, non-traditional students, part-time students that also work
The Calc Lab

- Location: Posvar 1200A

- For Calc 1 & 2 have a lab component where students can do their online homework through LON CAPA

- During lab hours you should walk around to help students

- When a student needs help:
  1. Check for input errors
  2. Answer the right question
  3. Pen & paper
Final Exam Grading

- With the exception of night sections, Calculus courses have departmental finals.
- TA's are required to help grade till all exams are assessed.

"I think your test grading is biased in favor of students who answer the test questions correctly."
Grading Exercise

I think you need to be more explicit in this particular step.
If you have any questions or concerns, here are some resources:

- Course Lecturer
- Course Coordinator
- Graduate TA Mentor (Cezar Lupu)
- Fellow Graduate Students
THANKS
Questions?