Math 317 syllabus and grading policy

Text

- Primary Text: Feldman and Rechnitzer
- Secondary text: Whitman, primarily chapters 13 and 16
- Secondary text: Strang, primarily chapters 12 and 15
- Secondary text: James Stewart, Multivariable Calculus Edition 7E, primarily chapters 13 and 16

Topics

1. Vector valued functions of one variable:
   Parameterized curves, velocity, acceleration, arc length.
   Includes curvature, normal and binormal vectors, tangential and normal components of acceleration.
2. Vector valued functions of several variables:
   vector fields, line integrals, conservative fields, fundamental theorem of line integrals,
   Green's theorem, gradient, curl, divergence,
   parameterized surfaces, surface area, surface integrals,
   Stoke's theorem, divergence theorem.

Grading

- There will be one midterm, Friday Oct 13th
- There will be 5 quizzes
- The final exam is scheduled for TBA. **No calculators will be allowed on any of the exams.**
- **Final grade computation.** It is given by which ever is greater,
  Quizzes*15% + Midterm*35% + FinalExam*50%
  OR
  FinalExam - 10.
  The second option is your **safety net:** even if you perform very badly on the midterm/quizzes, you can still get a good grade in the class by doing well on the final.
- Final grades will then be scaled to be commensurate with historical averages.
- X factor: at the end of the grading process, I may move a few grades up by one or possibly two points. These will be awarded based on some X factors: for example, class room participation, extra problems, or drastic improvement over the course of the semester.

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