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| Math 471 | Jeff Norden | Matthias Eller |
| Vector Analysis | <i>Office:</i> BR107, <i>phone:</i> x3592 | <i>Office:</i> BR308, <i>phone:</i> x3592 |
| MWF 11:00–11:50pm | <i>e-mail:</i> jnorden | <i>e-mail:</i> meller |
| 104 Bruner Hall | <i>Hours:</i> MW: 1–3pm, and | <i>Hours:</i> 10:00–10:50am |
| Spring 2000 | by appointment. | (daily) |

This course will cover the algebra and calculus (differential and integral) of vectors, and applications of these topics. The prerequisite is Math 281 (Calculus III) with a C or better.

The textbook is “Div, Grad, Curl, and all that,” by H. M. Schey, third edition. We will cover all of this short paperback text. Additional handouts will also be distributed periodically throughout the semester. Some of the handouts will cover background material, some will give a more in-depth treatment of topics from the text, and others will present additional material on vector analysis. You will be responsible for both the textbook material *and* the material presented in the handouts.

There will be three in-class exams during the semester, and a final exam at the end. They are scheduled for the the following dates:

- Exam #1: Wednesday, February 16
- Exam #2: Wednesday, March 8
- Exam #3: Wednesday, April 12
- Final Exam: Thursday, May 11, 10:30am–12:30pm

In addition, there will be several in-class quizzes and take home assignments (all will be announced in advance). A few of the assignments will be done in the computer lab. Grading will be done using the standard 90–80–70–60 scale (90% or better is an A, . . . , below 60% is an F).

Your grade will be computed as follows:

- Total of the three exams = 40% of your grade
- Quizzes and assignments = 30% of your grade
- Final exam = 30% of your grade

If you must miss an exam or quiz for some pressing reason, be sure to talk to us *beforehand*.

EXTRA CREDIT: We may give a few extra-credit problems. They are mostly for your own enjoyment. Unless we specify otherwise, extra credits will be totaled separately, and will *not* effect your class average. If your final average falls near a borderline and you have some extra credit, then you will get the higher grade.