Math 375—Vector Analysis
Fall 2006
Webster B12; M,W,F 3:10–4:00 p.m.
Please note that this document has three pages.

Instructor

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Office hours: M,W,F 11:00 a.m.–12:00 noon; Tu,Th 1:00–3:00 p.m.

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Outline of course

We will use the textbook *Introduction to Vector Analysis*, Seventh Edition by Harry F. Davis and Arthur D. Snider (Hawkes Publishing, 2000).
We will cover selected material from Chapters 1–5. We will then cover the topics on tensors in the optional sections of Chapters 1–3. Finally, we will consider applications to classical mechanics and electromagnetism as treated respectively in Appendices C and D.

Grades

The course grades will be based on homework, a midterm examination, and a comprehensive take-home final examination weighted as follows:

- homework—20%
- midterm examination (closed book and notes)—40% (Thursday, October 12, time and place to be announced later)
- comprehensive take-home final examination—40% (posted on the course web page at 4:30 p.m. on Friday, December 8; due in mailbox marked 'Ariyawansa' in Neill 103 by 4:30 p.m. on Monday, December 11)

Course policies

- Homework assignments, and announcements will be posted on the course web page whose url is
`http://www.wsu.edu:8080/~ari/math375.html`.

- Blue books are necessary for examinations.
- I shall assign problems from the textbook regularly. These problems are not graded. I very strongly recommend *regular and complete* solution of these problems. I shall also strongly recommend using my office hours regularly to obtain assistance on difficulties that you may encounter. Trying to solve these problems just before examinations would not help master the material.
  At regular points in time I shall ask you to submit solutions to problems (mostly) from the book for grading. These assignments may contain problems assigned earlier (and not graded) from the textbook. These assignments constitute the homework assignments mentioned above for 20% of the grade.

Additional comments

- Make sure to read the sections of the textbook pertinent to the material I cover in class, and to complete the tasks that I assign in class, *prior to attending the next class.* If you have any difficulties whatsoever you should see me immediately. Do not let your difficulties accumulate.
- As you read the textbook please keep in mind that examples worked out in the textbook will rarely be used in class. Instead I shall choose exercises for which there are no answers in the textbook and use them as examples by solving them in class. It will be your responsibility to read the examples worked out in the textbook.
- Problem solving is important in this course. Make sure to start working on the assignments as soon as possible. Again, if you have any difficulties whatsoever, you should see me immediately. Do not leave the solution of assignment problems to the last minute.

College of Sciences Academic Dishonesty Policy

Academic dishonesty or cheating of any kind in the course (including plagiarism) will not be tolerated. Anyone caught cheating will be given a grade of F for the entire course. A letter documenting the incident will be written to the Dean of the College and the Vice President for Student Affairs. Plagiarism is defined as the unauthorized use of the language and the thoughts of another person, and the representation of them as ones own (Random House Webster's College Dictionary, 1991).

Disability Resource Center

Reasonable accommodations are available for students who have a documented disability. Please notify the instructor during the first week of class of any accommodations needed for the course. Late notification may cause the requested accommodations to be unavailable. All accommodations must be approved through the Disability Resource Center (DRC) in Administration Annex 206 (Tel. 335-1566).