

MAP 4153.0001 Vector and Tensor Analysis (3 Credits)
(2006 Fall)

Instructor: Dr. Jiongmin Yong

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Office Hours: MWF 12:40 — 2:20pm

Classroom: MAP 407 **Class Times:** MWF, 2:30— 3:20pm

Textbook/Reference Books: Mathematical Techniques for Engineers and Scientists,
by L. C. Andrews and R. L. Phillips

Quick Introduction to Tensor Analysis, by R. A. Sharipov,
(Can be downloaded from: <http://www.geocities.com/r-sharipov/e4-b.htm>)

Contents of the Course: Based on Chapters 4—5 of Andrews—Phillips book, and
Sharipov's book.

Attendance and Classroom Conduct: Attendance will be checked. You will earn 3% extra credit on your course score average if you have no more than 4 unexcused absences. Excuses absences, must be approved no later than 7 days after the absence. Common courtesy requires that students arrive in class on time, and stay the entire class period. Turn your cell phones and pagers off. Please treat your classmates and the instructor with respect and courtesy.

Notes taken: As an advanced course mainly for senior students, notes taken is very important for fully understanding the material of the course. It is a base for successfully completing the homework and taking tests and examination.

Homework: Homework will be assigned. Although the homework will NOT be collected and graded, selected problems will be presented in the class upon request. Students are required to do all the assigned problems, which will definitely be essential to get satisfactory scores in tests and final exam.

Tests and Exam: There will be TWO tests (100 points each) and ONE final exam (100 points). **No makeups!** The final exam is mandatory for all students. No exceptions are permitted for early travel, etc.

Grading Policy: The final exam score will count 40%. The test scores will totally count 60%. The final exam score will replace the lowest test score if the final exam score is better. The course grade will be scaled as follows:

A: 90-100% B: 80-89% C: 70-79% D: 60-69% F: 0-59%

Academic Honesty: Cheating will not be tolerated. Students found to be cheating will be dealt with to the full extent of University policy.