

Syllabus for MATH580

Chun Liu (August 29, 2005)

Lecture Schedule: TH 9:45 a — 11:00 a, 111 BOUCKE.

Instructor: Chun Liu, Tel: 865-3611; McAllister Room 321.

Office hours: Tuesdays & Thursday: 11:15 a — 12:15 p, or by appointments.

1. Materials covered: See MATH 580 Contents

Text for Chapter I: **Vector and Tensor Analysis with Applications**, by A.I. Borisenko and I. E. Tarapov, translated by R. A. Silverman, Dover. 1968.

Text for other Chapters: **Principles of Applied Mathematics: Transformation and Approximation**, by James Keener, Perseus Books, 2000.

2. Homework

Assignments: See them at <http://www.math.psu.edu/liu/580f05index.html>

Schedule: One assignment is given early each week and due the Tuesday of the following week. Students are encouraged to work on all problems of the assignments. However, the problems in the assignments are graded selectively only.

3. Examinations:

There will be one midterm exam (date: October 13) and one final exam. The final course grade will be determined as follows:

30% homework + 30% midterm exam + 40% final exam.