

# Syllabus with Schedule

Summer 2016

Math 1550

Where: 627 Thackeray Hall    When: M, Tu, W, Th 6:00-7:45 pm

Instructor: ShiTing Bao (Ellen)

Office: 608 Thackeray Hall

Email: ellenbao@pitt.edu

Office Hour: Monday and Thursday 4:30-5:30 pm

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## About the course

This course is devoted to the analysis of vectors and applications. The topics of the course include vector algebra, vector functions, vector fields, multi-variable integrals and theorems, basic tensor notations and analysis, and applications in physics and engineering.

## Prerequisite

Multi-variable Calculus (Math 0240). Linear Algebra (Math 0280 or MA1180).

## Text

The text for this course is Introduction to Vector Analysis, 7th ed., by H. Davis and A. D. Snider.

## Homework

Each week, you will be assigned problems to write up and hand in. These assignments will be graded and returned.

## Final Exam Policy

The final exam will be given on the date of the last scheduled class.

## Exam Dates

See the class schedule below for the dates of the midterm and final exams.

## Grades

Your course grade will be determined as follows:

- \* Midterm exam 30%
- \* Final exam 40%
- \* Written assignments 30%

## Getting Help

### Tutoring

Walk in tutoring is available in the Calculus/Engineering Lab and in the Math Assistance Center (MAC) in the O'Hara Student Center. Tutoring hours will be posted outside the lab and the MAC.

You should go the Calculus/Engineering Lab for help with computer work, and to the MAC for assistance with pencil and paper work.

## Disability Resource Services

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Office of Disability Resources and Services as early as possible in the term.

### **Academic Integrity**

Cheating/plagiarism will not be tolerated. Students suspected of violating the University of Pittsburgh Policy on Academic Integrity will incur a minimum sanction of a zero score for the quiz, exam or paper in question. Additional sanctions may be imposed, depending on the severity of the infraction.

On homework, you may work with other students or use library resources, but each student must write up his or her solutions independently. Copying solutions from other students will be considered cheating, and handled accordingly.

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### **Schedule**

**Week 1.** May 16-19

Chapter 1 Vector Algebra

**Week 2.** May 23-26

Chapter 2 Vector Functions of a Single Variable

Chapter 3 Scalar and Vector Fields

**Week 3.** May 31-June 2

Chapter 3 Scalar and Vector Fields

**June 2, Thursday: Review**

**Week 4.** June 6-9

**June 6, Monday: Midterm**

Chapter 4 Line, Surface, and Volume Integrals

**Week 5.** June 13-16

Chapter 4 Line, Surface, and Volume Integrals

Chapter 5 Advanced Topics

**Week 6.** June 20-23

Chapter 5 Advanced Topics

**June 22, Wednesday: Review**

**June 23, Thursday: Final Exam**