# MATH 205A,B - LINEAR ALGEBRA
## WINTER 2013

LEC A: MWF 1:10 -2:30 PM (HATHORN 104)
LEC B: MWF 2:40 - 4:00 PM (HATHORN 104)

**Instructor:** Peter Wong

**Office:** 212 Hathorn

**Office phone:** x6143

**e-mail:** pwong@bates.edu

**Office hours:** MW 12:00 - 1:00, or by appointment

**Text:** *Linear algebra and its applications* by David C. Lay (3rd ed.), Addison Wesley, 2003

**Calculator:** TI-83 graphing calculator, Texas Instrument or equivalent

**Grading:** 2 Mid-terms - 20% each; Final - 30%; Quizzes - 20% (10 quizzes but the lowest score will be dropped); Homework - 10%.

Approximate Curve:-

$$A+ : 97\% - 100\% \qquad A : 93\% - 96.9\% \qquad A- : 90\% - 92.9\%$$
$$B+ : 87\% - 89.9\% \qquad B : 83\% - 86.9\% \qquad B- : 80\% - 82.9\%$$
$$C+ : 77\% - 79.9\% \qquad C : 73\% - 76.9\% \qquad C- : 70\% - 72.9\%$$
$$D+ : 67\% - 69.9\% \qquad D : 63\% - 66.9\% \qquad D- : 60\% - 62.9\%$$
$$F : 0\% - 59.9\%$$

**Exam dates:** 1st exam - Wednesday, February 6; 2nd exam - Monday, March 18; Final Exam - **Tuesday, April 9, 2013, 8:00 - 10:00 am**

**Prerequisites:** Math 105, Math 106, or BI/MA 255A

**Tentative Syllabus:** This is an introduction to the field of linear algebra. We intend to cover most of the first 6 chapters with additional topics from Chapter 7. Below is a tentative syllabus.

*week 1:* §§1.1 - 1.3; **quiz #1 (1/11)**

*week 2:* §§1.4 - 1.5, 1.7; **quiz #2 (1/18)** [HW1 due 1/16]

*week 3:* §§1.8 - 1.9; **quiz #3 (1/25)** [no class meeting on MLK Day 1/21] [HW2 due 1/23]

*week 4:* §§2.1 - 2.3; **quiz #4 (2/1)** [HW3 due 1/30]

*week 5:* review, mid-term exam, §3.1; **Exam #1 (2/6)** [HW4 due 2/6]

*week 6:* §§3.2, 4.1 - 4.2; **quiz #5 (2/13)**

**Winter Recess** - Feb. 18 - 22

*week 7:* §§4.3 - 4.5; **quiz #6 (2/27)**

*week 8:* §§4.6, 5.1 - 5.2; **quiz #7 (3/6)** [HW5 due 3/4]

*week 9:* §§5.3 - 5.4, review; **quiz #8 (3/13)** [HW6 due 3/11]

*week 10:* mid-term exam, §§6.1 - 6.2; **Exam #2 (3/18)**

*week 11:* §§6.3 - 6.4, 7.1; **quiz #9 (3/27)** [HW7 due 3/25]

*week 12:* §7.2, review; **quiz #10 (4/3)** [HW8 due 4/1]

**Notes:**

1. Notice that the final exam date is scheduled for Tuesday April 9, 2013 at 8:00am (2 hour long). Do not make plane reservation to leave campus BEFORE this date.

2. It is **IMPORTANT** that you **READ** the book **before** as well as **after** class. I do not expect you to *master* the concepts after the first reading of a section but familiarity of some of the terms and definitions will help understand more when I go over the material in class. Almost on a weekly basis, I plan to give a 10-15 minute short quiz on the material that is covered during the past week. Homework will be assigned and collected (no late homework allowed) frequently. This information sheet/syllabus can be found in:

`http://www.bates.edu/~pwong/teaching/Winter2013/Math205/Math205.html`.

3. **Math/Stat Workshop:** Old quizzes and exams of Math 205 (by other instructors) and related materials can be found in Mr. Eric Towne's resource page:

`http://abacus.bates.edu/~etowne/mathresources.html`

In addition, the College Mathematics and Statistics Workshop, located at Canham House, offers additional help. Please visit the workshop or contact its director, Grace Coulombe at gcoulomb@bates.edu.