Introduction to Matrices and Linear Algebra
Math 0280-1100, Spring 2015

George Sparling
Laboratory of Axiomatics
Department of Mathematics
University of Pittsburgh
Pittsburgh, Pennsylvania, USA
Course Information

• Classes
  This class is Mathematics 0280, CRN 18491, Introduction to Matrices and Linear Algebra
  The classes take place in BE226, Mondays, Wednesdays and Fridays, 2-2.50pm.
  The first class is Monday January 5th 2015.
  There is no class on Martin Luther King Day, Monday January 19th.
  There will be no class Friday 27th February.
  There are no classes during spring break, Saturday 7th March to Sunday 15th March.
  The last class is Friday April 17th 2015.
  The Final is Tuesday April 21st, 8.00am to 10.00am.
  There are a total of forty-one classes, of which three are designated for one final and two midterm examinations.

• Instructor   George Sparling

• Office    609 Thackeray

• Text    1-412-576-1429.

• e-mail    gnilraps@gmail.com

• Webpage    http://www.math.pitt.edu/ sparling

• Office hours
  Mondays 5.30-6.30pm, Tuesdays 4-6pm and Wednesdays 4.30pm-6.30pm
  in the Mathematics Lounge, 705 Thackeray, or by appointment.

Textbook and Syllabus

• Text    The text for this course is:
  Linear Algebra, A Modern Introduction, 4th Edition by David Poole
• Syllabus We shall cover most of the first five chapters.
Class Schedule

- Every second week there will be a quiz or an exam during the Friday class.

- Each week, there will be a homework due at the beginning of the Wednesday class.
The homework grader is Peng He, Thackeray 519, peh33@pitt.edu.
Questions about the grading of the homework problems should be addressed to him, in the first instance.
Each homework will consist of eight problems with five points per problem.

- Schedule
  
  **January**
  
  Monday January 5th
  Wednesday January 7th
  Friday January 9th
  
  Monday January 12th
  Wednesday January 14th   Homework 1 due
  Friday January 16th     **Quiz 1**
  
  Monday January 19th   No class: MLK day
  Wednesday January 21st   Homework 2 due
  Friday January 23rd
  
  Monday January 26th
  Wednesday January 28th   Homework 3 due
  Friday January 30th   **Quiz 2**
February

Monday February 2nd
Wednesday February 4th  Homework 4 due
Friday February 6th

Monday February 9th
Wednesday February 11th  Homework 5 due
Friday February 13th  Quiz 3

Monday February 16th
Wednesday February 18th  Homework 6 due
Friday February 20th

Monday February 23rd
Wednesday February 25th  Exam 1 Homework 7 due
Friday February 27th  No class today

March

Monday March 2nd
Wednesday March 4th  Homework 8 due
Friday March 6th

Monday March 16th
Wednesday March 18th  Homework 9 due
Friday March 20th  Quiz 4

Monday March 23rd
Wednesday March 25th  Homework 10 due
Friday March 27th

Monday March 30th
April

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Wednesday April 1st</td>
<td>Homework 11 due</td>
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<tr>
<td>Friday April 3rd</td>
<td>Exam 2</td>
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<td>Monday April 6th</td>
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<td>Wednesday April 8th</td>
<td>Homework 12 due</td>
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<td>Friday April 10th</td>
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<td>Monday April 13th</td>
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<td>Wednesday April 15th</td>
<td>Homework 13 due</td>
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<td>Friday April 17th</td>
<td>Quiz 5</td>
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<tr>
<td>Tuesday April 21st</td>
<td>Final 8.00am</td>
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**Grading**

There are thirteen homeworks, five quizzes, two midterm examinations and one final examination during the term. One quiz and three homeworks will be dropped.

**Grading Scheme**

- Best 10 homeworks at 30 points each: 300pts
- Best 4 quizzes at 40 points each: 160pts
- Two midterm examinations at 100 points each: 200pts
- One final examination at 240 points: 240pts
- Maximum Possible Score: 900pts

Grading is curved and based on your total score only, if you pass the final. The one letter grade rule is in effect: your course grade will not differ by more than one letter grade from your grade on the final. If you pass the final, your grade should be in the A+ to B- range, unless your other work is deficient. If you fail the final, grading will be in the range D+ to F.
Problem Sets

At least the following problems should be studied. Note that these are not the homework problems.

- Section 1.1, Questions 1-28.
- Section 1.2, Questions 1-52 and 61-67.
- Section 1.3, Questions 1-15.
- Section 1.3, Questions 1-15, 18-30 and 35-38.
- Section 2.1, Questions 1-38.
- Section 2.2, Questions 1-18.
- Section 2.3, Questions 1-42.
- Section 3.1, Questions 1-22 and 31-36.
- Section 3.2, Questions 1-28.
- Section 3.3, Questions 1-40 and 48-59.
- Section 3.5, Questions 1-48, 51 and 52.
- Section 3.6, Questions 1-25 and 29-39.
- Section 4.1, Questions 1-18.
- Section 4.2, Questions 1-52 and 57-65.
- Section 4.3, Questions 1-18.
- Section 4.4, Questions 1-41.
- Section 5.1, Questions 1-21.
- Section 5.2, Questions 1-22.
- Section 5.3, Questions 1-14.
- Section 5.4, Questions 1-12.
Getting help

- **Tutoring**
  Walk-in tutoring is available in the Mathematics Assistance Center in Room 215 of the O’Hara Student Center.
  http://www.mathematics.pitt.edu/about/math-assistance-center.

- **Disability Resource Center**
  If you have a disability, you are encouraged to contact me and the Office of Disability Resources and Services, 140 William Pitt Union 1-412-648-7890 as early as possible in the term.
  http://www.studentaffairs.pitt.edu/drsabout.