

**MATRICES (FIRST TEN WEEKS)**  
**MATH 220 SECTION 3**  
**FALL 2011**  
**COURSE SYLLABUS**

**PROFESSOR:** Dr. Daniel Joseph Galiffa

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**OFFICE:** Benson 86

**OFFICE HOURS:** Mon., Wed. and Fri. from 11:10AM-1:00PM,  
Tues. from 10:30AM-12:00PM & by *appointment*

**CLASSROOM:** OBS 120

**CLASS DAYS & TIMES:** Mon., Wed. and Fri. from 8:00-8:50AM

**IMPORTANT DATES:**

- DROP/ADD PERIOD: August 22-28
- LATE DROP DEADLINE: October 18
- Labor Day - September 5 (no class)
- Thanksgiving Break: November 21-25

Note: Please refer to the PSU policies regarding adding, dropping or withdrawing from a course before a decision is made and/or attend my office hours.

**TEXT:** *Linear Algebra and It's Applications*, Fourth Edition; by David C. Lay

**COURSE TOPICS:** Course topics will be selected from the following subject areas:

1. Linear Equations and Applications
2. Matrix Algebra
3. Determinants
4. Vector Spaces and Applications
5. Eigenvalues and Eigenvectors (Systems of ODE's)

**GRADING:** There will be three areas that will comprise the student's final grade:

1. **Examinations:** There will be three exams and the topics of which will be related to the subject areas as described above. More specifically, the exam problems will come from the relevant lecture material, the assignments, the quizzes and the text. Students will be given one class period to finish each exam. Examination dates will typically be announced in class at least one week before the exams are administered.
2. **Quizzes & Assignments:** There will be several quizzes that will cover the material discussed in lecture and the material from the assignments and the text. The nature of each quiz may vary; e.g., a 'standard' quiz, a pop quiz, group quiz or possibly a take-home quiz.

Throughout this course, there will also be a number of assignment sheets passed out in a timely manner, which will comprise various relevant problems, primarily from the text. Each assignment sheet will have detailed instructions for completion. Students are permitted to collaborate with other members of "this" class (and no one else) as long as their collaborators are documented. Working with anyone outside of this class on graded quizzes/assignments will *violate* the Penn State Erie Academic Integrity Policy, as paraphrased herein. Students are of course *enthusiastically* encouraged to bring any inquires regarding the assignments (individually or in groups) to my office for assistance and advice.

3. **Final Examination:** There will be a *comprehensive* final examination. However, if a student has an **A average** in the two areas above, they will be exempt from the final exam and receive an A as a semester grade.

There will be no make-up quizzes or examinations unless students have a *legitimate* excuse or a documented PSU event. However, the lowest quiz/assignment will be *omitted*. Also, each examination will consist of a total of 100 points with a 5 point bonus problem and there will also be additional bonus opportunities throughout the course.

Note: To attain full credit on any graded problems, sufficient work must be shown. Graphing calculators will not permitted on quizzes or exams, nor will they be used in class. However, the use of such calculators may be beneficial as a learning aid (I personally recommend the TI-89 Titanium<sup>TM</sup>, the TI-Voyage<sup>TM</sup> 200 or the TI-Nspire<sup>TM</sup>). For assistance in using these devices, please feel free to come to my office hours.

**GRADING SCALE:**

A	$\geq 92$
A-	[90, 92)
B+	[88, 90)
B	[82, 88)
B-	[80, 82)
C+	[78, 80)
C	[70, 78)
D	[60, 70)
F	[0, 60)

**FINAL GRADE:** A student's final grade will be determined as follows:

- Exam Average: 60%
- Quizzes & Assignments: 30%
- Comprehensive Final: 10%

**ACADEMIC INTEGRITY:** The Penn State Erie policies on academic integrity will be **strictly enforced**. Academic integrity is a basic guiding principle for all academic activity at the University, and all members of the community are expected to adhere to this principle. Specifically, academic integrity is the pursuit of scholarly activity in an open, honest, and responsible manner. It includes a commitment not to engage in or tolerate acts of falsification, misrepresentation, or deception. Such acts violate the fundamental ethical principles of the University community and undermine the efforts of others.

Violations of academic integrity are not tolerated at Penn State Erie. Violators will receive academic sanctions and may receive disciplinary sanctions, including the awarding of an XF grade. In cases such as these, an XF grade is recorded on the transcript and states that failure of the course was due to an act of academic dishonesty. All acts of academic dishonesty are recorded so those repeat offenders can be sanctioned accordingly. For a more complete description refer to the URL below.

- Source: <http://www.behrend.psu.edu/faculty/academics/integrity.htm>

**COURSE TIME:** As you very well may be aware of, due to space and time constraints some courses like this one are scheduled at 8:00AM - this time is *not* chosen by the instructor of the course. If this time appears to be an issue, for your own personal success, make all accommodations possible to ensure that this lecture time does not interfere with your performance.

*"I wish everyone success in this course and look forward to **another** productive semester!"*

**DISCLAIMER:** At anytime in this course the aforementioned statements of the syllabus may be amended at the discretion of the professor Dr. Galiffa. If this is to occur, students will be notified in a timely manor during a regularly scheduled class period only. It is the student's responsibility to ascertain this information in the case of an absence.