2014 – 2015 Fall Semester MATH 3200/5200 Section 100 (Barsamian)

Instructor:	Mark Barsamian, email: Mark.Barsamian.1@ohio.edu
Office:	Morton Hall Room 538, phone (740)593-1273
Office Hours:	Monday - Friday 9:40am – 10:30am
Textbook:	<u>Linear Algebra, 2014 Edition</u>, by Jim Hefferon Orthogonal publishing, 2014, ISBN 0989897524
Calculators:	Calculators will not be allowed on exams.
Course Web Page:	http://www.ohio.edu/people/barsamia/2014-15.1.3200
Course Description:	A course on linear algebra with an emphasis on applications and computations. Solutions to linear systems, matrices and matrix algebra, determinants, n-dimensional real vector spaces and subspaces, bases and dimension, eigenvalues and eigenvectors, diagonalization, norms, inner product spaces, orthogonality and least squares problems.
Prerequisites:	(MATH 163A or 263A or 1350 or 2301) and WARNING: No credit for both this course and the following (always deduct credit for first course taken): MATH 3210
Special Needs:	If you have a physical, psychiatric, or learning disability that requires accommodation, please let me know as soon as possible so that your needs may be appropriately met.

Grading: During the semester, you will accumulate points:

Homework Sets (10 Sets, 10 points each):	100 points possible
In-Class Exams (best 3 of 4 exams, 200 points each):	600 points possible
Comprehensive Final Exam:	300 points possible
Total:	1000 points possible

At the end of the semester, your Total will be converted to your Course Grade:

Your Total	Your Percentage	Your Course Grade	Interpretation
900 - 1000	90% - 100%	A	You mastered all concepts, with no significant gaps
850 - 899	85% - 89.9%	A-	
800 - 849	80% - 84.9%	B+	You mastered all essential concepts and many advanced concepts, but have some significant gaps.
750 - 799	75% - 79.9%	B	
700 - 749	70% - 74.9%	B-	
650 - 699	65% - 69.9%	C+	You mastered most essential concepts and some advanced concepts, but have many significant gaps.
600 - 649	60% - 64.9%	C	
550 - 599	55% - 59.9%	C-	
400 - 549	40% - 54.9%	D	You mastered some essential concepts.
0 - 399	0% - 39.9%	F	You did not master essential concepts.

Course Structure: One learns math primarily by trying to solve problems. This course is designed to provide structure for you as you learn to solve problems, and to test how well you have learned to solve them. This structure is provided in the following ways:

- **Textbook Readings:** To succeed in the course, you will need to read the book.
- **Suggested Exercises:** On the course web page, you will find a table of suggested exercises, taken from the textbook. The table is only partially filled-in right now, but it will get filled up as the course proceeds. The goal of the course is for you to be able to solve the exercises on this list. These exercises are not to be turned in and are not graded, but you should do as many of them as possible and keep your solutions in a notebook for study. Note that the solutions to all of the textbook exercises are available free online.
- **Homework Sets:** Ten homework sets will be collected, graded, and returned to you.
    - **Cover Sheets:** The homework sets will be described on cover sheets that will be handed out in class and available on the web. You must have a cover sheet stapled to the front of your homework.
    - **Late Homework Policy:** Homework is due at the start of class on the due date. Late homework is not accepted
- **Lectures:** In lecture, I will sometimes highlight textbook material that is particularly important, sometimes present material in a manner different from the presentation in the book, and sometimes solve sample problems. We have 37 lectures, totaling 2035 minutes. It is not possible to cover the entire content of the course in 2035 minutes, and the lectures are not meant to do that. Lectures are meant to be a supplement to your reading the textbook and solving problems.
- **Exams:** The exams will be made up of problems based on suggested and assigned exercises.

Attendance: Attendance is required for all lectures and exams, and will be recorded by a sign-in system.

Missing Class: If you miss a class for any reason, it is your responsibility to copy someone's notes and study them. I will not use office hours to teach topics discussed in class to students who were absent.

Missing an Exam Because of Illness: If you are too sick to take an exam, then you must
(1) send me an e-mail before the exam, telling me that you are going to miss it because of illness,
(2) then go to the Hudson Student Health Center.
(3) Later, you will need to bring me documentation from Hudson showing that you were treated there.
Without those three things, you will not be given a make-up exam.

Missing Exams Because of a University Activity: If you have a University Activity that conflicts with one of our exams, you must contact me before the exam to discuss arrangements for a make-up. I will need to see documentation of your activity. If you miss an exam because of a University Activity without notifying me in advance, you will not be given a make-up exam.