

**SUFFOLK COUNTY COMMUNITY COLLEGE
MICHAEL J. GRANT CAMPUS
FALL 2009
MAT206 COURSE OUTLINE**

COURSE:	LINEAR ALGEBRA
CRN:	MAT 206 CRN 97403
INSTRUCTOR:	Maria Teresa Alzugaray Rodriguez
PRE-REQUISITE:	C or better in MAT142
OFFICE:	HSEC A106
PHONE NUMBERS:	Office: (631) 851 – 6442 Math Secretary: (631) 851 - 6737
E-MAIL:	alzugam@sunysuffolk.edu
OFFICE HOURS:	Monday 10:00 – 11:15 am Tuesday 8:30 – 9:15 am; 2:00 – 3:15 pm Wednesday 12:30 – 1:30 pm Thursday 8:30 – 9:15 am
Webpage	http://www2.sunysuffolk.edu/alzugam/

COLLEGEWIDE COURSE DESCRIPTION

Study of vector spaces, subspaces, linear independence, bases, dimension, linear transformations, matrices, diagonalization processes, determinants, Euclidean spaces and orthonormal bases.

OBJECTIVES

Upon successful completion of this course, students will be able to:

1. comprehend definitions of an abstract nature;
2. prove or disprove whether a certain set of conditions meets the criteria of a given definition;
3. comprehend theorems and reproduce their proofs;
4. solve original problems using definitions and previously proved theorems;
5. apply the abstract to practical problems;
6. give geometric interpretations where applicable.

(In #7-#11, the word "understand" means #1-#6.)

The student will be able to demonstrate an understanding of:

7. vector spaces, subspaces, and their properties and representation;
8. equivalence relationships in general and row equivalent matrices in particular;
9. matrices and their operations;
10. linear transformations and their properties;
11. the relationship between linear transformations and matrices.

PROCEDURES FOR ACCOMPLISHING THESE OBJECTIVES

The students are expected to participate in problem solving during classes, do the assigned homework and reading and get help during the instructor's office hours if they need it. There is also free tutoring available at the Center for Academic Excellence Annex in room HSEC A129 (hours are posted on door and at http://department.sunysuffolk.edu/AcademicSkillsCenter_G/index_1763.asp).

TEXTBOOK

Linear Algebra by Jim Hefferon can be downloaded for free from the Internet at <http://joshua.smcvt.edu/linearalgebra/>

GRADING PROCEDURE

There will be three tests (no make-ups) and a cumulative final exam. Test average will represent 70% of your grade and the final exam score 30%. Letter grades are assigned according to college guidelines: 90-99.9 "A", 85-89.99 "B+", 80-84.99 "B", 75-79.99 "C+", 70-74.99 "C", 65-69.99 "D+", 60-64.99 "D", below 60 "F". A grade of 'W' will be given only if the student withdraws officially by returning a withdrawal slip with the teacher's signature to the Registrar's Office prior to the college wide deadline.

The approximate timeline for the tests and final exam is the following:

Test # 1	October 5, 2009
Test # 2	November 9, 2009
Test # 3	December 14, 2009
FINAL EXAM	December 21, 2009

ATTENDANCE POLICY

Attendance is mandatory. In accordance with the school policy, all students are expected to attend every session for each course for which they are registered. Students are responsible for all that transpires in class whether or not they are in attendance. The College defines excessive absence or lateness as more than the equivalence of one week of class meetings during the semester. Excessive absence or lateness may lead to failure in a course or removal from the class roster.

IMPORTANT INFORMATION

A student with special needs or disabilities should get in touch with the instructor during the first week of the semester in order for the appropriate accommodations to be arranged. For more information on this matter please contact the Counseling Center at (631) 851-6250.

Any rude or disruptive behavior may be cause for dismissal from a class for one class meeting. In those cases where the continued presence of a student poses a substantial threat or would be disruptive to the class, the instructor can request that the Dean of Student Services impose an interim suspension pending a disciplinary hearing. Cell phones and beepers should be turned off at all times during class time.