



AMBROSE  
UNIVERSITY COLLEGE

FACULTY OF  
ARTS & SCIENCE

COURSE INFORMATION SHEET  
**MATHEMATICS 111- Linear Algebra**

**Calendar Description:** (3-1) B

This course teaches linear equations, matrices, and vectors with elements and applications to coordinate geometry.

**Prerequisite:** Math 30

**Instructor:** John Wiest  
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**Text:** *Linear Algebra With Applications (5<sup>th</sup> Ed.)*  
W. Keith Nicholson  
McGraw Hill

The course consists of 3 hours of lecture and 1 hour of lab/tutorial per week. All quizzes will be written during lab/tutorial hours. The best 4 marks on quizzes will be taken in for grades. We will also discuss as a class a potential corrections scheme. Attendance at lectures and tutorials will help ensure success on quizzes and exams. If any quiz/exam is missed due to illness or death in the family, a doctor or counselor's note is required before a rewrite will be allowed.

<b>Marking:</b>	Quizzes (best 4 out of 5)	30%
	Midterm	30%
	Final (cumulative)	40%

**Grading Scheme**

A	90-100%	C	63-66%
A-	85-89%	C-	60-62%
B+	80-84%	D+	54-59%
B	76-79%	D	50-53%
B-	70-75%	F	Below 50%
C+	67-69%		

The following is a list of important dates for this course.

**Date**

Jan. 06	First Lecture (no tutorial this day).
Jan. 13	No Lecture in the morning. Quiz 1 in the afternoon.
Jan. 27	Quiz 2
Feb. 10	Midterm Exam
Feb. 15-19	Mid-Semester Break (No Classes)
Mar. 03	Quiz 3.
Mar. 17	Quiz 4.
Mar. 31	Quiz 5.
Apr. 02	Good Friday (no Classes)
Apr. 09	Last Class

**Note:** The course content will be drawn from the first four chapters of the textbook, drawing from : Systems of Linear Equations, Gaussian Elimination, Homogeneous Equations, Network Flow, Chemical Reactions, Matrix Algebra, Matrix Inverses, Markov Chains, Determinants, Cofactor Expansion, Diagonalization , Linear Recurrences, Vectors and Lines, Projections and Planes, Cross Products, Matrix Transformations.