(PMTH 127)

4 Credits Hours

1439-1440 H

Text book

• Introduction to Math 2 compiled from Introduction to calculus by M. Zahri and College Algebra and Trigonometry by M. Lial and Calculus by R. Adams

Course Coordinator: Mohammad Sudqi Hamdan

Evaluation System:

Evaluation of the students in PMTH 127 includes:

- Two one Hour exams.
- Quizzes
- Final exam at the end of the semester.

Grades are distributed as the following:

Activities	Points
First Exam	20%
Second Exam	20%
Quizzes	10%
Participation	10%
Final Exam	40%
Total	100%

Letter Grade

The letter grades derived from the course mark and will based on the performance of the in the above exams and assignments as the following:

A+	А	B+	В	C+	С	D+	D	F
95-100	90-94	85-89	80-84	75-79	70-74	65-69	60-64	60 >

Course content:

Chapter 1:	1.1 System of linear equations	8 Hrs.
Systems and	1.2 Properties of Matrices	
matrices	1.3 Determinant solution	
	1.4 Matrix Inverses	
Chapter 2:	2.1 Angle Measure	6 Hrs.
Trigonometric	2.2 Trigonometric Functions	
functions	2.3 Evaluating Trigonometric functions	
		20%
Chapter 3:	3.1 Radian Measure	6 Hrs.
The Circular	3.2 Unit Circle	
Functions and		
Their Graphs	3.3 Graphs of Sine and Cosine Functions	
Chapter 4:	4.1 Fundamental Identities	4 Hrs.
Polynomial	4.2 Verifying trigonometric identities	
and Rational	4.3 Sum and difference identities	
Functions	4.4 Double-Angle identities	
	4.6 Trigonometric equations	
	First Exam (chapters 1-4)	20%

Chapter 5:	1.1 Limits of function	12 Hrs.
Limits and	1.2 Limit at infinity and infinite limit	
continuity	1.3 Continuity, piecewise functions	
	1.4 The Formal Definition of Limits	
	5.1 Tangent Lines and Their Slopes	12 Hrs.
Chapter 6:	5.2 The Derivative	
Differentiation	5.3 Differentiation Rules	
	5.4 The Chain Rule	
	5.5 Derivatives of Trigonometric Functions	
	5.6 The Natural Logarithm and Exponential	
	5.7 Higher order derivatives	
	Second Exam (Chapters 3-4)	
Chapter 7:	6.1 l'hopital's Rule	4 Hrs.
Applications	6.2 Extreme Values	
of		
Differentiation		
<u>Classes</u> 9:	7.4. The Mathead of Cubatitudian	4 11
Unapter 8:	7.1 The Method of Substitution	4 Hrs.
megration	Einal Evam (Chaptors 1 E)	40%
		40/0

Academic integrity:

All students are expected to follow the rules of Majmaah University. Unexpected absences exceeding 25% of total number of class meetings will result in "DN" grade and prevent student from doing the final exam.