

University of North Texas at Dallas
Spring 2012
SYLLABUS

Course Abbreviation/Number/Title/Semester Hrs	
MATH 1650D.090: Pre-Calculus 5Hrs	
Department of	Mathematics
Division of	Liberal Arts
Instructor Name:	<i>Dr.Hushang Poorkarimi</i>
Office Location:	<i>TBA</i>
Office Phone:	<i>TBA</i>
Email Address:	<i><u>Hushang.poorkarimi@unt.edu</u></i>
Office Hours:	MW 4:30-5:30pm
Virtual Office Hours:	<i>The same</i>
Classroom Location:	<i>Building 1, #344</i>
Class Meeting Days & Times:	MW 5:30-8:00pm
Course Catalog Description:	Precalculus is designed to prepare students for the level of algebraic and trigonometric skills and knowledge that is expected in a calculus class. The review material of algebra and trigonometry, emphasizing topics and concepts are those of functions and their graphs.
Prerequisites:	Algebra and trigonometry
Co-requisites:	NA
Required Text:	Precalculus, by Fred Safier, Third edition, Schaum's Outline Series, Mc Graw Hill, 2013, ISBN 978-0-07-179559-3
Recommended Text and References:	Brief Analytic Geometry, by Thomas E. Mason, and Clifton T. Hazard
Access to Learning Resources:	UNT Dallas Library: phone: (972) 780-3625; web: http://www.unt.edu/unt-dallas/library.htm UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: 1012mgr@fheg.follett.com
Course Goals or Overview:	
	The goal of this course is that students to be familiar with important topics and concepts in general about functions and graphs...
Learning Objectives/Outcomes: At the end of this course, the student will	
1	Be able to graph linear and non-linear functions...
2	Demonstrate the ability to solve linear and non-linear equations, using determinants, and matrices,...
3	Define systems of linear and non-linear equations, ...
4	Identify conic sections(circle, ellipse, parabola and hyperbola),...
5	List all course Student Learning Outcomes(All topics such as Sequences, Series, Limits, Continuity, Derivatives, Trigonometric identities and equations, and Inverse trigonometric functions,...)
6	List all General Education Student Learning Outcomes (if applicable)NA
7	List all degree program Student Learning Outcomes (if applicable)NA

Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by professor Poorkarimi ...

TOPICS	TIMELINE
1. Linear and non-linear equations and inequalities	Week of 1/14/13
2. absolute value in equations and inequalities	Week of 1/21/13
3. Linear and non-linear Functions(quadratic , rational, exponential, logarithmic and trigonometric functions)	Week of 1/29/13
4. Angles, trigonometric identities and trigonometric equations	Week of 2/4/13
Test(1)	W. 2/6/2013
5. Sum, difference, double and half –angle formulas	Week of 2/11/13
6. Triangles and Inverse trigonometric functions	Week of 2/18/13
7. Vectors, Polar coordinates and Parametric equations	Week of 2/25/13
8. Trigonometric form of complex numbers, and system of linear and non-linear equations. Partial fraction decomposition	Week of 3/4/13
Test(2)	W. 3/6/2013
9. Introduction to Matrix algebra, Matrix multiplication and Inverse of a matrix, and Gauss – Jordan Elimination method	Week of 3/18/13
10. Determinants and Cramer’s rule	Week of 3/25/13
11. Conic sections, Ellipses(circles), Hyperbolas, and Parabolas	Week of 4/1/13
12. Rotation of Axes	Week of 4/8/13
13. Sequences and Series. The principal of Mathematical Induction	Week of 4/15/13
14. Binomial Theorem. Limits, Continuity, and Derivatives	Week of 4/22/13
15. Pre-final examination period	April 27-May 2

- Test(3) Comprehensive FINAL

5:00-7:00pm, M. May 6,2013

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

Exams – *written tests designed to measure knowledge of presented course material*

Assignments – *written assignments designed to supplement and reinforce course material*

Projects – *web development assignments designed to measure ability to apply presented course material*

Class Participation – *daily attendance and participation in class discussions*

Etc.

Grading Matrix:

Instrument	Value (points or percentages)	Total
Assignments		
Test(1)	25%	25
Exercises		
Quizzes	10%	10
Projects		
Test(2) Mid Term Exam	25%	25
Class Participation/ Discussion and Exercises	10%	10
Test(3) Final Exam	30%	30
Total:		100

Grade Determination:

A = 100 - 90 pts; i.e. 90% or better
B = 89 - 80 pts ; i.e. 80 – 89 %
C = 79 - 70 pts ; i.e. 70 – 79 %
D = 69 - 60 pts ; i.e. 60 – 69 %
F = 60 pts or below ; i.e. less than 60%
I = Incomplete grade

University Policies and Procedures

Students with Disabilities (ADA Compliance):

The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (ADA). Students' with documented disabilities are responsible for informing faculty of their needs for reasonable accommodations and providing written authorized documentation. Grades assigned before an accommodation is provided will not be changed as accommodations are not retroactive. For more information, you may visit the Student Life Office, Suite 200, Building 2 or call Laura Smith at 972-780-3632.

Student Evaluation of Teaching Effectiveness Policy:

The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class.

Assignment Policy:

(Discuss any special instructions relating to assignment submissions, late assignments, format of assignments, APA, word processor used, etc)

Exam Policy:

Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).

Academic Integrity:

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at <http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic%20Integrity.pdf> for complete provisions of this code.

In addition, all academic work submitted for this class, including exams, papers, and written assignments should include the following statement:

On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy.

Bad Weather Policy:

On those days that present severe weather and driving conditions, a decision may be made to close the campus. In case of inclement weather, call UNT Dallas Campuses main voicemail number (972) 780-3600 or search postings on the campus website www.unt.edu/dallas. Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.

Attendance and Participation Policy:

The University attendance policy is in effect for this course. Class attendance and participation is expected because the class is designed as a shared learning experience and because essential information not in the textbook will be discussed in class. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.

Diversity/Tolerance Policy:

Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Office of Student Life as the instructor deems appropriate.

Optional Policies: The following items are not permitted to use in the classroom (-):

- +Use of WebCT/Blackboard*
- Use of Cell Phones & other Electronic Gadgets in the Classroom*
- Food & Drink in the Classroom*
- Use of Laptops*