

University of North Texas at Dallas
Fall 2010
SYLLABUS

MATH 1650D: Precalculus		5 Hrs
Department of	Mathematics and Information Sciences	Division of
Instructor Name:	<i>Vinod Arya</i>	
Office Location:		
Office Phone:		
Email Address:	<i>vinod.arya2@unt.edu</i>	
Office Hours:	MTWR: 11:00 am – 1:00 pm	
Virtual Office Hours:	<i>None</i>	
Classroom Location:	<i>(Building and Room #)DAL1 322</i>	
Class Meeting Days & Times:	MTWR – 4:00 pm – 5:20 pm	
Course Catalog Description:	5 hours. A preparatory course for calculus: trigonometric functions, their graphs and applications; sequences and series; exponential and logarithmic functions and their graphs; graphs of polynomial and rational functions; general discussion of functions and their properties. MATH 1650D covers approximately the same material as MATH 1600D and 1610D together. Students who already have credit for both MATH 1600D and MATH 1610D may not receive credit for MATH 1650D. Satisfies the Mathematics requirement of the University Core Curriculum.	
Prerequisites:	Math 1100D with a grade of C or better or appropriate placement	
Co-requisites:	None	
Required Text:	<i>Precalculus, 5th edition, by J. Stewart, L. Redlin and S. Watson. A graphing calculator (TI 83) is also required.</i>	
Recommended Text and References:		
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@fhcg.follett.com	
Course Goals or Overview:	The goal of this course is to prepare students for Calculus courses.	
Learning Objectives/Outcomes:	At the end of this course, the student will be able to:	
1	Use the properties of real numbers and complex numbers, and basic rules of algebra	
2	Find the equations and plot the graphs of lines and circles	
3	Understand the basic concepts and properties of functions and their graphs	
4	Understand and apply the properties of polynomial functions and rational functions	
5	Understand and apply the properties of exponential functions and logarithmic functions	
6	Use linear, quadratic, and exponential functions to model and solve applied problems	
7	Compute the values of trigonometric functions	
8	Use the properties of the trigonometric functions	
9	Graph the trigonometric functions and their transformations	

10	Use polar coordinates and graph polar equations using a graphing utility
11	Use sequences (arithmetic, geometric) and geometric series, find their sums
12	Demonstrate the ability to use graphing calculators to solve problems.

Tentative Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by announcement in class and/or email.

SECTIONS	TIMELINE (WEEK)
1.10	I
1.11, 2.1, 2.2, 2.3	II
2.4, 2.5, 2.6, 2.7	III
2.8, 3.1, 3.2, 3.3	IV
3.4, 3.5, 3.6, Review, Exam I	V & VI
4.1, 4.2, 4.3, 4.4	VII
4.5, 5.1, 5.2, 5.3	VIII
5.4, 5.5, 6.1,	IX
6.2, Review, Exam II	X
6.3, 6.4, 6.5,	XI
7.1, 7.2, 7.3, 7.4	XII
7.5, Review, Exam III	XIII
8.1, 8.2, 8.3	XIV
11.1, 11.2, 11.3	XV
11.5, Review, Final Exam	XVI

Course Evaluation Methods

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

Grading Matrix:

Instrument	Value (points or percentages)	Total
Homework Assignments (two lowest scoring home-works will be dropped).	10%	10%
3 Quizzes	3 at 5% each	15%
3 tests	3 at 10% each	30%
Mid Term Exam	20%	20%
Class Participation/ Discussion	5%	5%
Final Exam	20%	20%
Total:		100%

Grade Determination:

- A = 90% or better
- B = 80 – 89 %
- C = 70 – 79 %
- D = 60 – 69 %
- F = less than 60%

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. For more information, you may visit the Office of Disability Accommodation/Student Development Office, Suite 115 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:

No late homework assignments will be accepted. A missed home-assignment is worth zero. No makeup tests and quizzes will be given, except for documented emergencies.

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 conduct and Academic Dishonesty 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 Conduct at http://www.unt.edu/csrr/student_conduct/index.html for complete provisions of this code.

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 Center for Student Rights and Responsibilities as the instructor deems appropriate.

Other Policies:

Use of cell Phones in the class is prohibited. No Food and Drink is allowed in the class. An Incomplete Grade "I" will be awarded only in exceptional circumstances and per university rules (see catalog). Students are responsible for meeting all university deadlines (registration, fee payment, prerequisite verification, drop deadlines etc.). See university catalog and/or schedule of classes for policies and dates.