

**University of North Texas at Dallas**  
**Fall 2014**  
**SYLLABUS**

MATH 1581.031		<b>A Survey of Mathematics with Applications</b>		4Hrs
<b>Department of</b>	Mathematics and Information Sciences	<b>Division of</b>	Liberal Arts & Life Sciences	
<b>Instructor Name:</b>	Noureen Khan			
<b>Office Location:</b>	DAL2- 223			
<b>Office Phone:</b>	972 338 1567			
<b>Email Address:</b>	<a href="mailto:noureen.khan@unt.edu">noureen.khan@unt.edu</a>			
<b>Office Hours:</b>	Monday & Wednesday or by appointments.		11:30 pm – 1:30 pm,	
<b>Virtual Hours:</b>	Thursday		12:00 pm – 2:00 pm.	
<b>On Campus Class Meetings</b>	1. Tuesday, August 26 <sup>th</sup> (First Meeting)		2:30 pm – 4:30 pm	
	2. Tuesday, October 23 <sup>rd</sup> (Mid Term Exam)		12:00 pm – 2:00 pm	
	3. Tuesday, December 9 <sup>th</sup> (Final Exam)		12:00 pm – 2:00 pm	
<b>Classroom Location:</b>	DAL2 - 136			
<b>Lab Location:</b>	DAL2 - 135			
<b>Math Lab</b> <i>DAL1, 3rd floor</i>	UNT Dallas Math Lab located in DAL 1- 3rd floor, is an open lab where you can do your math homework and also make appointments for Individual Tutoring or Group Study Sessions. You can make online appointments at <a href="http://dallas.unt.edu">http://dallas.unt.edu</a> under the 'Advising and Tutoring' tab.			
<b>Course Catalog Description:</b>	<p><b>Survey of Mathematics with Applications and Algebra Review. 4 hours.</b></p> <p>An alternate version of MATH1580 for students identified in the mathematics placement process as requiring supplemental instruction to strengthen their algebra skills. A grade of C or better is required for this course to serve as prerequisite. MATH 1580/81 is not intended to prepare students for calculus, science, engineering or business courses. Students may not receive credit for both MATH 1580 and MATH 1581. Satisfies the Mathematics requirement of the University Core Curriculum.</p>			
<b>Course Description:</b>	Survey of Mathematics with Applications: Topics include probability, statistics, algebra, logic and the mathematics of finance. Additional topics are selected from geometry, sets, cryptography, fair division, voting theory and graph theory. Emphasis is on applications. Recreational and historical aspects of selected topics are also included. Technology is used extensively.			
<b>Required Text:</b>	A Survey of Mathematics with Applications, Expanded 9th Edition, by Angel, Abbott and Runde.			

<b>Required Homework Assignment Service</b>	<p>My Math Lab is a homework assignment service, providing online versions of the homework problems found at the end of each chapter. Students must use <a href="http://www.coursecompass.com">www.coursecompass.com</a> website to access MyMathLab. The MML course ID for this class is: <b>khan17268</b>.</p> <p>Help for MyMathLab is available at <a href="http://247pearsoned.custhelp.com">http://247pearsoned.custhelp.com</a>. For SUPPORT fast assistance; choose chat to “talk” to a technical support person. Students can also call 1-800-677-6337 for assistance from Pearson, ask their instructor or inquire at the Academic Resource Center.</p>
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<b>Access to Learning Resources:</b>	<p>UNT Dallas Library: <a href="http://www.unt.edu/unt-dallas/library.htm">http://www.unt.edu/unt-dallas/library.htm</a>  phone: (972) 780-3625;</p> <p>UNT Dallas Bookstore:  phone: (972) 780-3652; e-mail: <a href="mailto:1012mgr@fhcg.follett.com">1012mgr@fhcg.follett.com</a></p>
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**Course Evaluation Methods:** This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

- My Math Lab Home Work and Online Activity
- Weekly Quizzes
- Mid Term Exam – (in-class)
- Final Exam – Comprehensive Final Exam.

**Grading Matrix:**

Instrument	Value (percentages)	Points
Mid Term Exam	20 %	100
Weekly Quizzes	25%	125
Homework & Online Activity	20 %	100
Project	10%	50
<b>Final Exam</b> (Comprehensive)	25 %	125
<b>Total:</b>	<b>100 %</b>	<b>500</b>

**Grade Determination:**

Grade	Percentage %	Points
A	90 or better	450 or more
B	80 – 89	400 – 449
C	70 – 79	350 – 399
D	60 – 69	300 – 349
F	less than 60	299 or less

**Calculator Policy: GRAPHING CALCULATOR:**  
TI 83, TI 83 Plus, TI 84, TI 84 Plus or equivalent is **required** for this class.

**Course Objectives:**

The goal of this course is to introduce students to sets, logic, number theory, algebra, linear programming, probability and statistics.

**Learning /Outcomes:**

Upon successful completion of this course, the student will be able to

1	Communicate mathematics and use technology to solve problems
2	Demonstrate understanding of financial mathematics
3	Demonstrate understanding of probability and basic statistics
4	Demonstrate understanding of voting methods, apportionment methods, their theory and uses
5	Demonstrate understanding of basic logic
6	Demonstrate understanding of graph theory basics

**Gen Ed Learning Outcomes:**

Upon successful completion of this course, the students will

- Explore Mathematics, English, Arts and Humanities, Natural Sciences, Social and Behavioral Sciences
- Make connections between different areas of knowledge and different ways of knowing.
- Be able to locate, evaluate and organize information including the use of information technologies
- Think critically and creatively, learning to apply different systems of analysis.
- Develop problem solving skills that incorporate multiple viewpoints and differing contexts in their analysis.
- Cultivate intellectual curiosity and self-responsibility, building a foundation for life-long learning.

**CLASS RULES:**

- ***Come prepared!*** This includes bringing textbook, notebook, pencils, eraser, & calculator etc.
- Use of Cell Phones & other Electronic Gadgets (Laptops, IPADS, etc.) other than class related work is prohibited in the classroom.
- Eating or drinking is not allowed during the lectures or in the lab.
- Calculators cannot be shared during testing.
- Do not expect Extra Credit assignments.
- **No cheating will be tolerated.** Anyone caught cheating will receive an **F** for the course. Cheating includes receiving help from anyone or anything that is not allowed on quiz, test or final exam.

## **COURSE FORMAT:**

This is a distance learning online course. The class will meet face to face only three times during the semester, see the meeting schedule details below. The course website on Blackboard has sixteen WEEKLY MODULES for the semester, where course material and required assignments are available. In a week module, you will be learning online through the electronic textbook, course supplements that include power point and lecture notes, videos and MyMathLab links. You are assigned two MyMathLab homework assignments per week after completion of reading and watching videos. A Chapter Review Quiz will be given to ensure the mastery of content.

For the meeting days, you are expected to come prepared, that includes completion of all course material as outlined in the weekly modules posted on blackboard. Read and understand class policy by exploring every tab under the course menu panel.

Class Meetings (face to face):

- 1. Tuesday, August 26<sup>th</sup> (First Meeting) 2:30 pm – 4:30 pm**  
Class will meet on UNT Dallas campus, DAL2 – 136 for course introduction.
- 2. Tuesday, October 21<sup>st</sup> (Mid Term Exam) 12:00 pm – 2:00 pm**  
In class Mid Term Exam
- 3. Tuesday, December 9<sup>th</sup> (Final Exam) 12:00 pm – 2:00 pm**  
In class Comprehensive Final Exam.

As a result you will be able to complete academic work in a flexible manner. The attendance for face to face meetings is mandatory and there will be absolute no make up for any assignment. Students are responsible for all information given in class, regardless of his/her attendance. This includes any changes made to due dates of homework assignments and exam dates that were announced in class. It is your responsibility to learn of all important stuff you missed. Exchange phone numbers/email addresses with several members of your class so that you have multiple sources of information in case of a personal emergency.

## **REQUIRED INITIAL ASSIGNMENT:**

In accordance with US Department of Education guidance regarding class participation, this class requires the following first-week assignments:

- 1) Attending the first meeting on Campus,
- 2) Registering at Course Compass/ MyMathLab software,
- 3) Completing the MyMathLab- Week 1 assignments.

The MyMathLab software must be purchased and you must be registered by the eighth day of the class, failure to do that may result administratively drop from the course as a no show. If you have any questions about your assignments, or you are unable to complete your assignments, please contact me in person.

## **TESTING:**

Math 1581 is an intensive, accelerated course, and requires semester long hard work commitment from you. All testing will be face to face, you will take two major tests and a final exam in the class room, see the attached schedule. No makeup examinations will be allowed except for documented emergencies (See Student Handbook). In the case of injury or illness, you need to provide a note from a health care professional affirming date and time of a medical office visit regarding the injury or illness and stating that you should not be in class that day. You must notify me no later than the end of the second working day after the missed exam. You must bring an approved graphing calculator, pencils, and your student ID card or driver's license.

**WEEKLY PROCEDURE:**

Weekly assignments will typically be due each Tuesday at 12:00 am, unless otherwise specified. Every week, textbook sections are assigned according to the tentative schedule on the syllabus. Each assignment has a deadline with no possible extension. For each assigned section:

1. Read the assigned section in the course textbook (hardcover or e-text) and power point slides.
2. Watch the Lecture Videos for the section in weekly module.
3. Complete online homework and weekly activity (quiz) on MyMathLab.

**ATTENDANCE:**

Class attendance is mandatory for three scheduled meetings; make sure you arrive on time and sign-in for each meeting. Students are responsible for all information posted online, regardless of his/her attendance. This includes knowing exam dates, homework assignments and any changes made to due dates that are announced in class. Discussion form is available to exchange information on Blackboard. If you miss an assignment, it is your responsibility to learn of all the important stuff you missed.

**Statement regarding use of email and attendance:**

- Email may not be used in lieu of attendance. YOU MUST ATTEND first meeting and testing on campus. Information and instruction regarding lectures, lessons, quizzes, and homework assignments are posted online, so read it several time before sending out emails.
- Due to limitations of email communication, you must participate on Discussion Board for help with particular problems.
- Use my unt.edu account including your Class, Section and Student Id for all communications. Emails with this information, may considered as SPAM or have delay in response. Instructor response time for all communications is two business days, during the semester.

**HOMEWORK: MyMathLab**

The MyMathLab (MML) online homework assignments are set weekly throughout the semester. You will have two (2) online HW assignments due for every class week of instruction. The assignment due dates and times are explicitly stated by each assignment on MML. You have unlimited number of attempts per problem-type before the due date for each online problem in MyMathLab. NO LATE HOMEWORK will be accepted for any reason whatsoever. A grade of zero will be assigned to any homework assignment not completed online and submitted by the due date and time. Specifically, due dates will NOT be extended for any reason. NO EXCEPTIONS. Because of the pace and intensity of this course, there will be no drop grades for any assignment. If you are prone to circumstances that affect your ability to complete assignments as due, I suggest that you work ahead. Technical difficulty, including loss of internet access, is not an excuse for not completing assigned work.

**Make-up Exam Policy:**

**NO MAKE-UP EXAMS WILL BE GIVEN.** Math 1581 is an intensive, accelerated course, and requires semester long hard work commitment from you. You must take the exams in class on the scheduled days and times. The exam dates and the final exam date are listed on this syllabus. No makeup examinations will be allowed except for documented emergencies (See Student Handbook). In the case of injury or illness, you need to provide a note from a health care professional affirming date and time of a medical office visit regarding the injury or illness and stating that you should not be in class that day. You must notify me no later than the end of the second working day after the missed exam. A test may be taken prior to the scheduled date provided that the student provides an email request at least one week prior to the date in which s/he chooses to take a test. In the event of a schedule conflict with a university function, dental/physician's appointment, wedding, court date, the student must take the test early. If a student does not take a scheduled exam, a zero will be recorded for that exam with no possibility of a make-up exam.

**NOTE:**

This is tentative schedule and subject to change at the discretion of the instructor at any time.

<b>Monday &amp; Wednesday</b>	<b>Module</b>	<b>TOPICS</b>
8/25/2014	<b>Week 1</b>	<b>Syllabus &amp; Black-board (IN CLASS)</b> 12:00 pm – 2:00 pm
9/01/14	<b>Week 2</b>	Chapter 3 Logic
9/08/14	<b>Week 3</b>	Chapter 3 Logic
9/15/14	<b>Week 4</b>	Chapter 6 Algebra
9/22/14	<b>Week 5</b>	Chapter 6 Algebra
9/29/14	<b>Week 6</b>	Chapter 11 Consumer Mathematics
10/06/14	<b>Week 7</b>	Chapter 11 Consumer Mathematics
10/13/14	<b>Week 8</b>	Chapter 11 Consumer Mathematics
10/20/14	<b>Week 9</b>	<b>MID-TERM EXAM (IN CLASS)</b> Tuesday October 21 <sup>st</sup> 12:00 pm – 2:00 pm
10/27/14	<b>Week 10</b>	Chapter 12 Probability
11/03/14	<b>Week 11</b>	Chapter 12 Probability
11/10/14	<b>Week 12</b>	Chapter 13 Statistics
11/17/14	<b>Week 13</b>	Chapter 13 Statistics
11/24/14	<b>Week 14</b>	Chapter 14 Graph Theory
12/01/14	<b>Week 15</b>	Chapter 14 Graph Theory
12/09/14	<b>Week 16</b>	<b>FINAL EXAMINATION (IN CLASS)</b> 12:00 pm – 2:00 pm

## **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 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.*

### **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](http://www.unt.edu/csrr/student_conduct/index.html) for complete provisions of this code.*

### **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. **Excessive absences (more than 3 classes, with or without excuse) may result in being dropped from the class or receiving an F for the course.***

### **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.*

### **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](http://www.unt.edu/dallas). Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.*