

**University of North Texas at Dallas**  
**Summer 5WII - 2015**  
**SYLLABUS**

MATH 1581.031	<b>A Survey of Mathematics with Applications</b>		4Hrs
<b>Department of</b>	Mathematics and Information Sc.	<b>School of</b>	Liberal Arts & Life Sc.
<b>Instructor Name:</b>	Dr. 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> Use your UNT email, including Class/Section/Student ID in the subject line. Or, use Blackboard emails.		
<b>Office Hours:</b>	By appointments.		
<b>Virtual Hours:</b>	Monday – Thursday	1:00 pm – 2:00 pm	
<b>Skype ID</b>	Khanoureen1		
<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 ' <i>Advising and Tutoring</i> ' tab.		
<b>Course Catalog Description:</b>	<b>Survey of Mathematics with Applications and Algebra Review. 4 hours.</b> 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.		
<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>Text Book: (optional)</b>	A Survey of Mathematics with Applications, Expanded 9th Edition, by Angel, Abbott and Runde. ISBN-13: 9780321759665		

<b>Required Assignment Software MML</b>	<p>MyMathLab(MML) software is the main platform for this course, providing online versions of homework assignment and self-paced algebra learning service. Electronic textbook (free) is included in MML.</p> <p>The MML course ID for this class is: “khan56495”</p> <p>First time you must use MML link from Blackboard learn to access and register for MML, after that may use <a href="http://www.coursecompass.com">www.coursecompass.com</a> website to access MyMathLab directly.</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, or inquire at the Academic Resource Center.</p> <p>MyMathLab offer two weeks of free trials, so student can register and explore variety of features from the first day of class.</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@fheg.follett.com">1012mgr@fheg.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.

- Home Work
- Study Plans
- Quizzes
- Tests
- Final Exam – Comprehensive

<b>Grading Matrix:</b>			
<b>Instrument</b>	<b>Value (percentage)</b>	<b>Grade Determination:</b>	<b>%</b>
Homework	20%		
Study plans	10%	A	90 or better
Quizzes	20%	B	80 – 89
Tests	25%	C	70 – 79
<b>Final Exam</b>	25%	D	60 – 69
<b>Total:</b>	<b>100 %</b>	F	less than 60

**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 basic logic
5	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, Social and Behavioral Sciences
- Make connections between different areas of knowledge and different ways of knowing.
- Be able to evaluate and organize information including the use of information technologies.
- Think critically and creatively, learning to apply different systems of analysis.
- Develop the problem solving skills to incorporate multiple viewpoints and differing contexts.
- Cultivate intellectual curiosity and self-responsibility, building a life-long learning foundation.

### Assignments due dates Policy:

All assignments will typically open at **12:00 am** and due on **Monday, Wednesday and Friday at 11:59 pm**, unless otherwise specified.

## COURSE FORMAT:

Math 1581.031 is an accelerated distance learning (online) summer 5WII course. The course website on Black Board Learn (BBL) has FIVE WEEKLY MODULES, where course material and required assignments are available, linked to MyMathLab (MML) where all learning aids are also available under multimedia tab. For your convenience lecture and lab portions of this course are combined together, so there is no separate lab. During the first three weeks, in addition to lecture assignments, you will work on Chapter 6 – Algebra Review to cover the lab section. In a weekly module, you will learn through electronic textbook, course supplements that include power point and lecture notes, videos, animated examples and other helpful web resources. You will have a daily homework assignment followed by a short quiz after completion of reading and watching the lecture videos. For simplicity, all assignments are open at **12:00 am** and due at **11:59 pm** on **Monday, Wednesday and Friday**, unless otherwise specified. After a chapter is completed, you will take a Chapter-Test to ensure the mastery of chapter contents. Study Plans are assigned as pre-requisite for all Chapter-Tests, and are 10% your semester grades, completion is mandatory for taking a Chapter- test. Final exam is password protected with additional security measures to maintain the academic integrity of this course. On Blackboard, read and understand the course syllabus policy by exploring every tab under the course menu panel.

## REQUIRED INITIAL ASSIGNMENT:

In accordance with US Department of Education guidance regarding class participation, this class requires the following assignments by July 15, 2015:

- 1) **Registering for MyMathLab software, and completing first two assignments.**  
(Mymathlab does offer 2weeks of free trial)
- 2) **Sending me an email that you understand and agree with the course policy.**
- 3) **Posting a self-introduction on Blackboard discussion board.**

Above three assignments must be completed by the 3rd day of class July 15<sup>th</sup>, failure to do that may result administratively drop from the course. If you have any question, contact me by phone or email at any time.

## WEEKLY PROCEDURE:

Math1581.031 is NOT **SELF PACED** course; however, you will complete academic work in a flexible manner. Due to nature of this course, all assignments have firm deadlines with no possible extension. There will be absolute no makeup for a missing assignment. It's your responsibility to have all updated information provided on blackboard or posted online regardless of internet or technology problems. This includes any changes made to the due dates of homework assignments and exam dates that were announced or posted online. Stay active on discussion board with several members of your class so that you have multiple sources of information in case of a personal emergency.

As a set rule, homework is assigned and due on Monday, Wednesday and Friday with *unlimited* number of attempts of answers. However, a score of 60% or more is required to access quiz over the completed sections. In other words, every homework assignment is followed by short quiz, and you must score 60% or more on homework assignment to access its quiz. On a quiz, you will have *two (2) attempts*, so start early on a homework assignment and secure the quiz access well before the deadlines.

End of chapter- test are major part of your grades. To ensure the mastery of chapter contents, completion of Study plan is mandatory before taking a test. You can start on a study plan as early as you start a chapter, and keep a good record of your work. You will have *one (1) attempt* to answer on chapter test, so prepare enough and answer carefully.

During the last week, you will learn about voting and apportionment methods in Chapter 15. You will have only one assignment for this chapter – a project report. In other words, you will read and write a report on a selected topic about voting or apportionment methods. More details about this assignment are listed in Week -5 module on blackboard. Make sure you select a topic well ahead and submit your report on time. Report grade is equivalent to a chapter-test grade.

For each weekly module:

1. Read the assigned section in the course textbook (hardcover or e-text).
2. Watch lecture videos, and other multimedia resources available on MyMathLab.
3. Complete homework and short quiz on time, there is no penalty for doing before time.
4. Work diligently on Study Plan and take Chapter Test when available.
5. Practice final exam review and study plan before Final.

## COMMUNICATIONS:

By taking online class, you have flexibility of doing assignments at your convenient time, however due to the fast pace, extensions won't be granted for any assignment. If you encounter a problem other than technology, contact me at any time, by sending email at: [noureen.khan@unt.edu](mailto:noureen.khan@unt.edu).

You can visit my office by appointments or meet virtually during posted hours by sharing your Skype ID. Use UNT email and include your class/ section/ student ID in the subject line for all communications, email sent from other than UNT mails get pushed back to junk folder for security reasons. Call my office in case you seek a verbal response, I am available at 972 338- 1567 during listed office hours.

### Statement regarding use of email and extension requests:

- Emails about assignments extension request may not be replied due to heavy electronic communication load and course syllabus policy.
- Emails sent from other than UNT email address and/ or without student- ID and Class and Section number may go to junk (SPAM) folders, and may not be replied.
- Emails about grades or grades related questions may not be replied per UNT Dallas policy.
- Emails sent to blackboard account may take longer response time.
- Emails regarding personal matters or irrelevance to the course will go unanswered.

## Top Ten - A SUCCESSFUL SEMESTER

Here are 10 key steps that will lead you to a successful semester.

1. On first day of class, register on MyMathLab (MML). You can buy MML software by itself, buying a hardcover textbook is optional. Electronic textbook is included in MML for free.
2. Registration period for MML will end on July 15<sup>th</sup>, and after that anyone not registered may administratively drop from the class. More importantly, the delay will throw you back in all assignments.
3. Login to MML daily, and several times a week, homework assignments are open for two or more days before the due dates and you have unlimited number of attempts to that.
4. Early submission of any assignment has no penalty; you can work on multiple assignments at a time and submit them before time. You will complete 3-4 homework and quizzes weekly.
5. Study Plans are mandatory for Chapter tests, and part of semester grades, so make sure you finish study plans well ahead before taking a Chapter test.
6. Final exam is password and security protected. You will have one attempt to complete it, password will be emailed to you, and will be good for 24 hours.
7. Complete SETE on UNT Dallas website under *myunt*. With proof of SETE completion, your lowest (one) quiz grades will be dropped.
8. Make a post on Discussion board or send email that you understand and agree with the course policy by July 15, 2015.
9. Don't expect extra credit assignments, there is practically no time for extra credit assignment in a 5 weeks semester.
10. Feel free to discuss any issue or difficulty you may have in understanding the course material or class policy, I am available to help, contact me at any time.

**NOTE:**

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

<b>Date</b>	<b>Module</b>	<b>TOPICS</b>
7/13/2015	<b>Week 1</b>	Chapter – 3 Logic & Chapter - 6 Algebra Review
7/20/2015	<b>Week 2</b>	Chapter – 11 Consumer Mathematics & Chapter – 6 Algebra Review
7/27/2015	<b>Week 3</b>	Chapter – 12 Probability & Chapter – 6 Algebra Review
8/03/2015	<b>Week 4</b>	Chapter – 13 Statistics & Chapter – 14 Graph Theory
8/10/2015	<b>Week 5</b>	Chapter – 15 Voting and Apportionment  <b>FINAL EXAMINATION</b>  Thursday, August 13 <sup>th</sup>

## **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.*