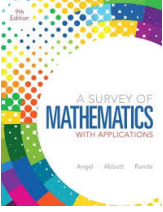


**University of North Texas at Dallas**  
**Fall 2016**  
**SYLLABUS**

MATH 1580.030		<b>A Survey of Mathematics with Applications</b>		3Hrs
<b>Department of</b>	Mathematics and Information Sciences	<b>School of</b>	Liberal Arts & Life Sciences	
<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@untdallas.edu">noureen.khan@untdallas.edu</a> (Use this address only) Emails must sent from myunt.edu account and include Class/Section/Student Id in the subject line.			
<b>Office Hours:</b>	Monday & Wednesday 11: 30 am - 2: 30 pm or by appointments.			
<b>Virtual Hours:</b>	Saturday 12:00 pm – 2:00 pm. Available on Skype and phone.			
<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. Non UNT Dallas students can use math lab/tutor services provided at their home campuses.			
<b>Course Catalog Description:</b>	<b>Survey of Mathematics with Applications - 3 hours.</b> MATH 1580 is 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 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, fair division, voting theory and graph theory. Emphasis is more on its applications. Recreational and historical aspects of selected topics are also included. Technology is used extensively.			

<b>Text Book (optional)</b>	 <p>A Survey of Mathematics with Applications, 9th Ed. Angel, Abbott, Runde. ISBN-13: 9780321759665</p>
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<b>Required Software Assignment Service</b>	<p>My Math Lab is an online assignment service, providing all assignments and learning aids accessible for the course. <b>First time students must use their Blackboard login to access MyMathLab.</b> The course ID for this class is: <b>khan57425</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:                    phone: (972) 780-3625; <a href="http://www.unt.edu/unt-dallas/library.htm">http://www.unt.edu/unt-dallas/library.htm</a></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.

- ❖ Home Work
- ❖ Study Plans
- ❖ Quizzes
- ❖ Chapter Tests
- ❖ Final Project

<b>Grading Matrix:</b>			
Instrument	Value (percentages)	Grade Determination:	
Homework	20%	Grade	Percentage %
Study Plan	10%	A	90 or better
Quizzes	20%	B	80 – 89
Chapter Tests	40%	C	70 – 79
Final Project	10%	D	60 – 69
<b>Total:</b>	<b>100 %</b>	F	less than 60

**Calculator Policy:** You can use the following calculators:  
TI 83, TI 83 Plus, TI 84, TI 84 Plus or equivalent.

<b>Course Objectives:</b>	
	The goal of this course is to introduce students to sets, logic, number theory, algebra, linear programming, probability and statistics.
<b>Learning /Outcomes:</b>	
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
5	Demonstrate understanding of basic logic
6	Demonstrate understanding of graph theory basics
<b>Gen Ed Learning Outcomes:</b>	
Upon successful completion of this course, the students will	
<ul style="list-style-type: none"> <li>• Explore Mathematics, English, Arts and Humanities, Natural Sciences, Social and Behavioral Sciences</li> </ul>	
<ul style="list-style-type: none"> <li>• Make connections between different areas of knowledge and different ways of knowing.</li> </ul>	
<ul style="list-style-type: none"> <li>• Be able to locate, evaluate and organize information including the use of information technologies</li> </ul>	
<ul style="list-style-type: none"> <li>• Think critically and creatively, learning to apply different systems of analysis.</li> </ul>	
<ul style="list-style-type: none"> <li>• Develop problem-solving skills that incorporate multiple viewpoints and differing contexts in their analysis.</li> </ul>	
<ul style="list-style-type: none"> <li>• Cultivate intellectual curiosity and self-responsibility, building a foundation for life-long learning.</li> </ul>	
<b>Assignments due dates Policy:</b>	
All assignments will typically open at <b>12:00 am</b> and due on <b>Monday, Wednesday and Friday at 11:59 pm</b> , unless otherwise specified.	
<b>REQUIRED INITIAL ASSIGNMENT:</b>	
In accordance with US Department of Education guidance regarding class participation, this class requires the following assignments by September 02, 2016:	
<ol style="list-style-type: none"> <li>1. Registering for MyMathLab software (Mymathlab does offer 2 weeks of free trials, so you should register right away.)</li> <li>2. Completing first home wok and its quiz on MML.</li> <li>3. Sending me a note that you understand and agree with the course policies.</li> <li>4. Posting a self-introduction on Blackboard discussion board.</li> </ol>	
Above three assignments must be completed by the first week of class, August 28, 2016. Failure to do that may result administratively drop from the course. If you have any question, contact me or visit my office.	

## COURSE FORMAT:

Math 1580 is an accelerated fully online (distance learning) course. The course website is linked to Black Board Learn (BBL) where course material is presented in EIGHT WEEKLY MODULES. Required course material and online assignments are available and linked to MyMathLab (MML), the main platform for this course where all learning aids are available in “**multimedia library**” tab. For your convenience learning options are set at flexible weekly schedule, which means you will learn and do assignments at your convenient time during each week. In a weekly module, you will learn thru the (electronic) textbook and course supplements that include power point slides, lecture notes, videos, animated examples and other helpful web resources. In general, you will have three (3) homework assignments due weekly and each followed by a short quiz. You should start homework assignments after reading and watching of 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.

Once a chapter is complete, you will take a Chapter- Test to ensure the mastery of contents. You will also work on “Study Plan”, uniquely prepared by the intelligence system of MML based on one’s overall performance and to ensure the in depth understanding of learned contents. The Study Plans are required for all chapter tests, providing you complete review of the chapter contents. Although study plans are 10% of your grades, more importantly, they will prepare you better for chapter tests, midterm and final exams. Completion of a study plan is mandatory for all major exams. On Blackboard, read and understand the course syllabus policy by exploring every tab under the course menu panel.

## WEEKLY PROCEDURE:

Math1580.030 is NOT a **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.

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 a quiz over the completed sections. In other words, every homework assignment is followed by a short quiz, and you must score 60% or more on homework assignment to access the quiz. You will have *two (2) attempts* for quizzes, 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.

The final class project is another major assignment, contributing 10% of final grades. You will learn about voting and apportionment methods in Chapter 15. The project report is the only assignment you will have for chapter 15, report grade is equivalent to a **chapter-test grade**. In other words, you will read and write a report on a selected topic about voting or apportionment methods. The project details and rubrics about this assignment are available in “major project” on blackboard. Make sure you select a topic well ahead and submit your report on time.

A 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. Select project problem and submit final project report on time (week 8).

#### **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 during office hours or by appointments or meet online (virtually) by sharing your Skype ID. For security reasons, use your UNT email and include class/ section/ student ID in the subject line for all communications, emails sent from other than UNT mails might get pushed back to junk folder and cause delay in responses. 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 get no response 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 end up in a wrong (SPAM) folders.
- Emails about grades or grades related questions may not be replied per UNT Dallas policy.
- Emails sent to blackboard account may take longer than 2 days to response back.
- Emails regarding personal matters or irrelevance to the course will go unanswered.

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#### **Assignments due dates Policy:**

- Weekly assignments will **open at 12:00am and due at 11:59pm** on **Monday, Wednesday and Friday** unless otherwise specified.
- All homework assignment have unlimited number of attempts.
- Quizzes (2 attempts) and chapter tests, midterm exam (1 attempt).

## 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) and explore the course material. You can buy MML software at [www.coursecompass.co](http://www.coursecompass.co), you can get two (2) weeks of free access. Buying a (hardcover) textbook is optional; MML comes with electronic textbook (free). The course ID for this class is: **khan57425**.
2. Login to MML several times a week and stay on top of upcoming assignments. Read text, watch videos and take good note before starting an assignment.
3. All assignments are open for couple of days or more and you have unlimited number of attempts to complete homework. Take quizzes right after homework.
4. Early submission of an assignment has no penalty; you can work on multiple assignments at a time and submit them before time.
5. Study Plans are mandatory for chapter tests, midterm and final exams; make sure you finish study plans well ahead and complete the assignments on time.
6. Select project problem and submit your final project report on time (week 8).
7. Complete "SETE" on UNT Dallas website under *myunt*. With the proof of SETE completion, your lowest (one) quiz grades will be dropped.
8. Make a post on Discussion board and send me a note that you understand and agree with the course policy by **August 26, 2016**.
9. Don't expect extra credit assignments, there is practically no time for extra credit assignment in a fast paced online course.
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.  
Good Luck!

## CLASS SCHEDULE

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

Week	Major Assignments	TOPICS
Week 1 8/22/16	Syllabus & Black-board (optional on campus meeting)	<u>Chapter 3</u> Logic
Week 2 8/29/16	Test Chapter-3	<u>Chapter 3</u> Logic
Week 3 9/05/16	Test Chapter- 11	<u>Chapter 11</u> Consumer Mathematics
Week 4 9/12/16	Test Chapter- 12	<u>Chapter 12</u> Probability
Week 5 9/19/16	<b>Midterm Exam</b>	<u>Chapter 12</u> Probability
Week 6 9/26/16	Test Chapter- 14	<u>Chapter 14</u> Graph Theory
Week 7 10/03/16	Test Chapter- 13	<u>Chapter 13</u> Statistics
Week 8 10/10/16	<b>Final Project Reports</b>	<u>Chapter 15</u> Voting and Apportionment Methods

## **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 Dr. Chapple at 972-338-1779.*

### **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.*