University of North Texas at Dallas
Fall 2015
SYLLABUS

MATH 1580.030	**A Survey of Mathematics with Applications**	3Hrs

Department of	Mathematics and Information Sciences	**Division of**	Liberal Arts & Life Sciences

Instructor Name:	Dr. Noureen Khan
Office Location:	DAL2- 223
Office Phone:	972 338 1567
Email Address:	noureen.khan@unt.edu
Office Hours:	Monday & Wednesday 11: 30 am - 2: 30 pm or by appointments.
Virtual Hours:	Thursday & Thursday 12:00 pm – 2:00 pm.
Math Lab ***DAL1, 3rd floor***	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 *http://dallas.unt.edu* under the '*Advising and Tutoring*' tab. Non UNT Dallas students can use math lab/tutor services provided at their home campuses.
Course Catalog Description:	**Survey of Mathematics with Applications and Algebra Review. 3 hours.** 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.
Course Description:	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 applications. Recreational and historical aspects of selected topics are also included. Technology is used extensively.
Required Text:	A Survey of Mathematics with Applications, 9th Ed. Angel, Abbott, Runde. ISBN-13: 9780321759665

Required Software Assignment Service	My Math Lab is an online assignment service, providing all assignments and learning aids accessible for the course. Students must use www.coursecompass.com website to access MyMathLab. The MML course ID for this class is: **khan67354.** Help for MyMathLab is available at http://247pearsoned.custhelp.com. 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.
Access to Learning Resources:	UNT Dallas Library: http://www.unt.edu/unt-dallas/library.htm phone: (972) 780-3625; UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: 1012mgr@fheg.follett.com

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 and Study Plans
- Weekly Quizzes
- Chapter Tests
- Final Exam – Comprehensive Final Exam

Grading Matrix:

Instrument	Value (percentages)	Points
Homework	20%	100
Study Plans	10%	50
Weekly Quizzes	25%	125
Chapter Tests	25%	125
Final Exam (Comprehensive)	20%	100
Total:	**100 %**	**500**

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.

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.

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.

REQUIRED INITIAL ASSIGNMENT:

In accordance with US Department of Education guidance regarding class participation, this class requires the following assignments by August 31st, 2015:

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

Above three assignments must be completed by the 3rd day of class, August 31st, 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.

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 FIFTEEN WEEKLY MODULES. Required course material and online assignments are available and linked to online assignment software, MyMathLab (MML) where learning aids are also available under multimedia 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 through electronic textbook, course supplements that include power point slides of lecture notes, videos, animated examples and other helpful web resources. Every week, you will have two (2) homework assignments each followed by a short quiz after completion of study plan. 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. After a chapter is completed, you will take its Chapter-Test to ensure the mastery of chapter contents. Study Plans are assigned as pre-requisite for all Chapter –Tests, contributing 10% your semester grades, completion of study plans 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.

WEEKLY PROCEDURE:

Math1580.030 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 -9 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 the Final exam.

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.
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 24 hours to response back.
- 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) and explore the course material. You can buy MML software at www.coursecompass.co, buying a hardcover textbook is optional. Electronic textbook (free) is included in MyMathLab software.

   The course ID for this class is: **khan67354.**
2. Registration period for MML will end on August 31st, and after that anyone not registered may administratively drop from the class. More importantly, the delay will through you back in all assignments.
3. Login to MML several times a week and stay on top of upcoming assignments and the due dates. You can access MyMathLab from a mobile device where WiFi is available.
4. A homework assignment is open for a minimum of three days or more before its due date and you have unlimited number of attempts to complete it.
5. Early submission of an assignment has no penalty; you can work on multiple assignments at a time and submit them before time.
6. Study Plans are mandatory for quizzes and chapter tests, make sure you finish study plans well ahead and complete the assignments on time.
7. Final exam is password and security protected. You will have one (1) attempt to complete it, password will be emailed to you, and will be good for 24 hours.
8. Complete SETE on UNT Dallas website under *myunt*. With proof of SETE completion, your lowest (one) quiz grades will be dropped.
9. Make a post on Discussion board or send email that you understand and agree with the course policy by July 15, 2015.
10. Don't expect extra credit assignments, there is practically no time for extra credit assignment in a fast paced online course.

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!

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

Monday & Wednesday	Module	TOPICS
8/24/2015	**Week 1**	**Syllabus & Black-board & MML**
8/31/15	**Week 2**	Chapter 3 Logic
9/07/15	**Week 3**	Chapter 3 Logic
9/14/15	**Week 4**	Chapter 6 Algebra
9/21/15	**Week 5**	Chapter 6 Algebra
9/28/15	**Week 6**	Chapter11 Consumer Mathematics
10/05/15	**Week 7**	Chapter11 Consumer Mathematics
10/12/15	**Week 8**	Chapter11 Consumer Mathematics
10/19/15	**Week 9**	**Project Report** Chapter 15 Voting and Apportionment Methods
10/26/15	**Week 10**	Chapter 12 Probability
11/02/15	**Week 11**	Chapter 12 Probability
11/09/15	**Week 12**	Chapter 13 Statistics
11/16/15	**Week 13**	Chapter 13 Statistics
11/23/15	**Week 14**	Chapter 14 Graph Theory
11/30/15	**Week 15**	Chapter 14 Graph Theory
12/07/15	**Week 16**	**FINAL EXAMINATION**

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 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. Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.