University of North Texas at Dallas Summer 2013 SYLLABUS

MATH 1581D - 090: Survey of Mathematics with Applications and Algebra Review (3+1) Hrs								
Department of		Mat Scie		Information	Division of	Mathematics		
In show stow Name or		Male	unat Calile					
Instructor Name: Office Location:			Mehmet Celik DAL2, Room #225					
Office Phone:			972-338 1568					
Email Address:			Mehmet.Celik@unt.edu					
Office Hours:	Tues. 12 Wed. 12	12:00pm-1:00pm; 12:00pm- 2:00pm; 12:00pm-2:00pm; 12:00pm-1:00pm;						
UNTD Mathematics Lab Hours: The Mathematics Lab Note: Mathematics Lab			hours are To E	Be Announced.	Review component of the course.			
Virtual Office Ho	ours:	N/A						
Lecture Location	ı;	DAL 2,	Room #241					
Lecture Meeting	Days & T	Times:	Monday, T	uesday, Wedne	esday, & Thursday	y 9:00am-10:50am		
(Algebra Review Component) Lab			ab	DAL 2, Lab	DAL 2, Lab #136			
Lab Meeting D	ay & Tin	ie		Monday, Tuesday, Wednesday, & Thursday 11:00am-11:50am				
Description: requiring sup course if they better. Studen Survey of Ma MATH1580 for instruction to serve as prere algebra, logic cryptography. Recreational a extensively. Mousiness course if they better.			mate version of MATH 1580 for students identified in the mathematics placement process as g supplemental instruction to strengthen their algebra skills. Students may not enroll in this f they have received credit for any other UNT mathematics course with a grade of C or tudents may not receive credit for both MATH 1580 and MATH 1581. of Mathematics with Applications and Algebra Review. 4 hours. (3;1) An alternate version of 580 for students identified in the mathematics placement process as requiring supplemental ion to strengthen their algebra skills. A grade of C or better is required for this course to prerequisite. Survey of Mathematics with Applications: Topics include probability, statistics, logic and the mathematics of finance. Additional topics are selected from geometry, sets, raphy, fair division, voting theory and graph theory. Emphasis is on applications. onal and historical aspects of selected topics are also included. Technology is used rely. MATH 1580/81 is not intended to prepare students for calculus, science, engineering or secourses. Students may not receive credit for both MATH 1580 and MATH 1581. Satisfies the natics requirement of the University Core Curriculum.					

uisites: Consent of department. Satisfies the Mathematics requirement of the University Core Curriculum.		
N/A		
 A Survey of Mathematics with Applications 9/e by Allen Angel, Christine Abbott and Dennis Runde. MyMathLab (MML) may be purchased packaged with textbook, as a stand-alone or directly online, at www.coursecompass.com. MML is a required online course delivery platform where students access and complete assignments. MML offers also the eBoook. The MML course ID for this class is: If you have a used book you can also buy a standalone code for MyMathLab. The hardcopy of the book is optional, but you have to read it. The e-book version of the textbook is included within MML which is required. The bookstore packages the physical text with MML and sells MML by itself. Please discuss this with me if you have any questions. 		
N\A		
problems found at the end of each chapter. Registration Information to MyMathLab: We will register to MyMathLab (MML) on the 1st class of the summer semester. Although you can register and work on MML you have to purchase the access code in 10 days otherwise MML will block your account. MML is an online course delivery platform through which students access and complete assignments. Students may access MML at any general access lab on campus. Students not registered with MML may be administratively dropped with the possibility of no refund. Students will NOT be given extensions for any missed assignments for any reason. Not having access to MML is not an exception. MyMathLab Course ID: ALEKS (http://aleks.com) The Algebra Review section of this course will require the use of the ALEKS software. Instructions for logging in will be given in the 1st class and will be available on BlackBoard. Students must purchase ALEKS access code in 10 days otherwise ALEKS will block your account. ALEKS course code: EDY4M-PLLMX		
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@fheg.follett.com UNT Dallas Mathematics Lab:		

Learning Course Objectives/Outcomes: At the end of this course, the student will				
1	demonstrate an understanding of basic financial mathematics			
2	demonstrate an understanding of probability and statistics basics			
3	demonstrate an understanding of voting methods, apportionment methods, their theory and uses			
4	demonstrate an understanding of basic logic			
5	demonstrate an understanding of graph theory basics			
6	use technology to solve problems and communicate mathematics			
General	l Education Outcomes: At the end of this course, the student will			
1	Explore mathematics.			
2	Make connections between different areas of knowledge and different ways of knowing.			
3	Be able to locate, evaluate and organize information including the use of information technologies.			
4	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.			
4	Think critically and creatively, learning to apply different systems of analysis.			

Course Outline

Major Course Topics:

Topics from

 probability, statistics, algebra, logic, the mathematics of finance, geometry, sets, cryptography, fair division, voting theory and graph theory.

Math 1580 list of sections to be taught from course textbook:

Chapter 15: 1: Voting Methods; 2: Flaws of Voting; 3: Apportionment Methods; 4: Flaws of Apportionment Methods

Chapter 11: 1: Percent; 2: Personal loans and Simple Interest; 3: Compound Interest; 6: Ordinary Annuities, Sinking Funds and Retirement Investments; Modified 5 for Mortgage

Chapter 3: 1: Statements and Logical Connectives; 2: Truth Tables for Negation, Conjunction and Disjunction; 3: Truth Tables for the Conditional and Biconditional; 4: Equivalent Statements; 5: Symbolic Arguments

Chapter 13: 1: Sampling Techniques; 2: The Misuses of Statistics; 3: Frequency Distributions; 4: Statistical Graphs; 5: Measures of Central Tendency; 6: Measures of Dispersion; 7: The Normal Curve; 8: Linear Correlation and Regression

Chapter 12: 1: The Nature of Probability; 2: Theoretical Probability; 3: Odds; 4: Expectation; 5: Tree Diagrams; 6: Or and And Problems; 7: Conditional Probability; 8: The counting Principle and Permutations; 9: Combinations; 10: Solving Probability Problems Using Combinations

Chapter 14: 1: Graphs, Paths, and Circuits; 2: Euler Paths and Euler Circuits; 3: Hamilton Paths and Hamilton Circuits; 4: Trees.

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by BlackBoard email and in-class announcements.

	Monday	Tuesday	Wednesday	Thursday
Week #1	06/03/2012	06/04/2012	06/05/2012	06/06/2012
			<mark>in-class quiz</mark>	in-class quiz
		MML-HW DUE: 15.1, 15.2	MML-HW DUE: 15.3, 15.4	MML-HW DUE: 11.1, 11.2, 11.3
Week #2	06/10/2012	06/11/2012	06/12/2012	06/13/2012
	<mark>in-class quiz</mark>		<mark>in-class quiz</mark>	<mark>in-class quiz</mark>

		Exam #1		
	MML-HW DUE: 11.5, 11.6		MML-HW DUE: 3.1, 3.2, 3.3	MML-HW DUE: 3.4, 3.5
Week #3	06/17/2012	06/18/2012	06/19/2012	06/20/2012
	in-class quiz	i <mark>n-class quiz</mark>	in-class quiz	in-class quiz
	MML-HW DUE: 13.1, 13.2, 13.3	MML-HW DUE: 13.4, 13.5, 13.6	MML-HW DUE: 13.7, 13.8	MML-HW DUE: 12.1, 12.2
Week #4	06/24/2012	06/25/2012	06/26/2012	06/27/2012
	in-class quiz (10min)	Exam #2	in-class quiz	in-class quiz
	MML-HW DUE: 12.3, 12.4		MML-HW DUE: 12.5, 12.6	MML-HW DUE: 12.7, 12.8
Week #5	07/01/2012	07/02/2012	07/03/2012	07/04/2012
	in-class quiz	<mark>in-class quiz</mark>	Final Exam (Comprehensive, covers	No class
	MML-HW DUE: 12.7, 12.8	Practice Review for the Final Exam	all the material)	

Course Evaluation Methods

suggest that you work ahead.

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

Algebra Review Lab component (with ALEKS): Math 1581 has a required Algebra Review component. This portion of the course will address the Algebra Review content (through ALEKS software) and will comprise 25% of your course grade. Carefully read the syllabus for the Algebra Review Lab component of the course to ensure you understand course's Lab expectations. You are responsible for meeting course expectations of both the lecture and the Algebra Review Lab on Tuesdays. Please, consult with the syllabus for the Algebra Review component of Math 1581D-090.
Algebra Review Content on ALEKS: Real Numbers and Linear Equations, Systems of Linear Equations, Functions and (Logarithms), Graphs and Linear Equations, Exponents of Polynomials, Rational

Expressions and Functions, Radicals and Quadratic Equations

• Online Homework Assignments (with MyMathLab) - The MyMathLab (MML) online homework assignments for the entire term are already set. You will have one (1) online HW assignment due for every class period of instruction. The assignment due dates and times are explicitly stated by each assignment on MML. The due date and times are usually the day after the assignment is made by no later than 5:59 AM. You have five (5) attempts per problem-type for each online problem in MyMathLab. Use the attempts carefully so that you can earn a full score on each assignment. 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

- <u>In-class Quizzes</u> (in class) An in-class quiz will be hold at the first 15 minutes of a class. The dates for each quiz are pointed on the schedule for the topics above. There will be no make-ups for any missed inclass quizzes. Instead, at the end of the semester only the best 8 in-class quizzes will be considered.
- <u>Mid-term Exams</u> (in class) There will be two Mid-term Exams. The date for each exam is pointed in the schedule. See Make-up Policy section for more.
 - The department of Mathematics and Information Sciences at UNT Dallas creates a comprehensive final that all students of College Algebra take. Students must take the final exam at the prescribed time; no exceptions. Make necessary arrangements now to attend the final exam.
- <u>Final Exam</u> (in class) *Comprehensive Final Exam*. The schedule for the quizzes, tests and exams is attached. Absolutely <u>NO MAKE –UPS!</u>

Final Exam Date and Time: July 3th Wednesday 2013

Grading Matrix:

The student course grade is assigned according to the evaluation criteria and grading assignment stated on this syllabus. The grade is completely objective and is determined solely by student performance on each of the evaluation criteria. Don't expect extra credit work or bonus grade assignments. Grades are not intended to reflect how hard you've worked or the goodness of your intentions. Grades are intended to reflect your competency of the course content as you have demonstrated them on the evaluation criteria.

Instrument	Value (points or percentages)	Total
Algebra Review – Lab	100	100
with ALEKS		
Online Homework Assignments -	average of all Online Homework	30
MyMathLab	Assignments	
Weekly In-class Quizzes	average of the best 8 in-class	40
	quizzes	
Mid-term Exams	2 Mid-term exams at 65 points	130
	each	
Final Exam	One comprehensive final exam at	100
	100 points	
Total:		400

Grade Determination:

A = 400 - 360 pts; i.e. 90% or better

B = 320 - 359 pts; i.e. 80 - 89 %

C = 280 - 319 pts; i.e. 70 - 79 %

D = 240 - 279 pts; i.e. 60 - 69 %

F = 239 pts or below; i.e. less than 60%

Email Policy: <u>Use your Blackboard</u> email account to contact me. You should check your email account on the Blackboard every day. You are responsible for any information that I send out via email. Due to privacy rights, I will not discuss grades over the phone. I will only answer emails from your **Blackboard** account.

Calculator Policy: TI 83, TI 83 Plus, TI 84, TI 84 Plus or equivalent for the lecture, no calculator for **algebra review**. TI 89's, TI 92'2 or any other utility with alphanumeric/CAS capabilities are NOT permitted. A calculator may not be shared during an exam.

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. Grades assigned before an accommodation is provided will not be changed as accommodations are not retroactive. For more information, you may visit the Student Life Office, Suite 200, Building 2 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.

Exam Policy:

NO MAKE-UP EXAMS WILL BE GIVEN. You have chosen to enroll in an intensive, accelerated course. We will complete 15 weeks of course work in only 20 days of instruction. The exam dates and the final exam date are listed on this syllabus. You must take the exams in class on the scheduled days and times. 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. At the end of the semester, one (1) low exam grade (including zero for missing an exam) will be replaced with the final exam grade if the final exam grade is higher. A zero recorded for cheating/academic dishonesty will not be replaced with the final exam score.

Academic Integrity:

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity 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 Academic Integrity at http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic Integrity.pdf for complete provisions of this code. In addition, all academic work submitted for this class, including exams, papers, and written assignments should include the following statement: On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy.

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 make up any work covered in class. Students are also responsible for all information given in class, regardless of his/her attendance. This includes knowing exam dates, homework assignments and any changes made to due dates that are announced in class. If you miss a class, it is your responsibility to learn of all the important stuff you missed. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent. 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.

Excessive absences

o more than 'two and a half' classes may result in being dropped from the course with a grade WF.

For security measures once a student signs an attendance sheet she/he cannot leave the class without professor's permission.

- If a student needs to leave the class earlier she/he should talk to the professor before the class; the student should leave the classroom quietly.
- If a student has to leave the class (for example in case of a family emergency or a similar situation) the student must invite the professor politely out of the classroom to explain the situation.

'Algebra Review - Lab' Attendance: (Lab Attendance is mandatory)

According to the General Education Assessment Recommendations, in order to increase the college readiness, students are required to attend the Algebra Review – Lab every day to study on ALEKS.
 'Algebra Review - Lab meeting dates' and 'place' are pointed on the schedule in the syllabus for the Algebra Review component of Math 1581D-090.

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.

Copyright Policy:

The handouts used in this course are copyrighted. By "handouts," I mean all materials generated for this course, which include but are not limited to syllabi, lecture notes, quizzes, exams, in-class materials, review sheets, projects, and problems sets. Because these materials are copyrighted, you do not have the right to copy and distribute the handouts, unless I expressly grant permission.

Other Policy:

Classroom Etiquette:

Appropriate behavior is expected of all students taking this course.

- Arrive to class promptly and do not leave until the scheduled ending time of the class.
- If you must arrive late or leave early, please do so as discreetly as possible and take a seat near the door.
- Turn off all non-medical electronic devices such as pagers, cell phones, laptops, etc. Take off the headphones.
- Do not read newspaper or work on unrelated assignments during class.
- I prefer that you not eat during class.

Student Behavior:

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT.

- Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Student Life Center to consider whether the student's conduct violated the Code of Student Conduct.
- The university's expectations for student conduct apply to all instructional forums, including university and electronic classroom, labs, discussion groups, field trips, etc. The Code of Student Conduct can be found at http://dallas.unt.edu/sites/default/files/page level2/pdf/policy/7.001%20Code%20of%20Student%20Rights%20 Responsibilities%20and%20Conduct.pdf