

**University of North Texas at Dallas**  
**Spring 2015**  
**Course Syllabus – Survey Of Mathematics w/Algebra**

**MATH 1581D Survey of Mathematics with Algebra Review (4CR)**

<b>Department of</b>	<b>Mathematics and Information Sciences</b>	<b>Division of</b>	<b>Liberal Arts and Sciences</b>
<b>Instructor Name:</b>	<i>Rashmi Dabral</i>		
<b>Office Location:</b>	<i>Adjunct Office</i>		
<b>Office Phone:</b>	<b>972-338-1500</b>		
<b>Email Address:</b>	<b>rashmidabral@my.unt.edu</b>		
<b>Office Hours:</b>	<b>Tuesday : 3:30 p.m.– 5:30 p.m.</b>		
<b>Classroom Location:</b>	<i>MW - DAL2 241 / Tuesday DAL2 136</i>		
<b>Class Meeting Days &amp; Times:</b>	<b>5:30 p.m. – 6:50 p.m.</b>		
<b>Course Catalog Description:</b>	<p>Math 1581 is an alternative version of Math 1580 for students identified in the mathematics placement process as requiring supplemental instruction to strengthen their algebra skills. The topics of Math 1580 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 of Math 1580 is on applications. Recreational and historical aspects of selected topics are also included. Technology is used extensively. Math 1580 is not intended to prepare students for calculus, science, engineering or business courses.</p>		
<b>Prerequisites:</b>	<b>The consent of the Department</b>		
<b>Co-requisites:</b>	<b>Participation in Mathematics Lab</b>		
<b>Required Text:</b>	<b>A Survey of Mathematics with Applications 9/e by Allen Angel , Christine Abbott and Dennis Runde.</b>		
<b>Recommended Text and References:</b>	<ol style="list-style-type: none"> <li>1. A survey of Mathematics with Applications, by A. Angel, C. Abbott and D. Runde, 8<sup>th</sup> edition, Prentice Hall. ISBN-13: 978-0-321-50108-0.</li> <li>2. ALEKS Worktext for Intermediate Algebra with ALEKS User’s Guide and 1 Semester, by ALEKS Corporation, J. Streeter, D. Hutchison and Barry Bergman.</li> <li>3. 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.</li> </ol>		
<b>Access to Learning Resources:</b>	<p>UNT Dallas Library:  phone: (972) 338-1616;  web: <a href="http://www.untdallas.edu/our-campus/library">http://www.untdallas.edu/our-campus/library</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>		
<b>Course Goals or Overview:</b>			
	<i>The goal of this course is to provide an overall survey of various aspects of mathematics and applied mathematics, along with algebra review</i>		
<b>Learning Objectives/Outcomes:</b> At the end of this course, the student will			
1	To be able to set up and solve mathematical problems of appropriate level.		

2	Demonstrate the ability to read and write mathematical phrases and sentences
3	To be able to locate, evaluate and organize information in appropriate level of mathematical literature.
4	To be able to solve problems in various means (algebraic, numerical, graphical and so on) and compare them.
5	To be able to cultivate intellectual curiosity through self-motivated mathematical modeling of real world.

### Course Outline:

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by through UNT e-mail.

TOPICS	TIMELINE
1. Algebra Review	Week of 1/20/15
2. Consumer Math	Week of 2/3/15
3. Graph Theory	Week of 2/24/15
4. Logic	Week of 3/10/15
5. Sets	Week of 3/31/15
6. Probability	Week of 4/14/15
7. Statistics	Week of 4/28/15
8. Mid Term Exam	Week of 3/17/15
9. Final Comprehensive Exam	Monday May 11 <sup>th</sup> 2015

### Course Evaluation Methods:

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

- **Midterm and Final Exams:** written tests designed to measure knowledge of presented course material.
- **Assignments:** written/MyMathlab assignments designed to supplement and reinforce course material.
- **Quizzes:** small-scale written tests designed provide more frequent feedbacks on the students' understanding.
- **Group Projects:** small-scale assignments designed to promote mathematical communication between peers.
- **Class Participation:** daily attendance and participation in class discussions, Etc.

<b>Grade Determination:</b>			
Assignment	Percentages	Points	
MyMathLab-HW	30%	300	
MyMathLab-Quizzes/Hand-Written Quizzes	20%	200	
Mid-Term Exam	20%	200	
Final-Exam	25%	250	
Class-Participation/Bonus Points	5%	50	
Total Points	100%	1000	

## 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.*

### **Assignment Policy:**

**All the assignments will be required to be completed by due-date. You will lose 20% on each assignment that is turned in late after the deadline.**

### **Exam Policy: There is no make-up exams for the Mid-Term and Final Exams**

*Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).*

### **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](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](http://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 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**

- **If you are absent for 6 classes in a row it may be subject to being dropped from the course with a grade of 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.**

**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 Office of Student Life as the instructor deems appropriate.*

**Optional Policies: In the classroom at all times, students will be unable to**

- *Use of Cell Phones, head phones & any other Electronic Gadgets.*
- *Eat Food & Drink.*
- *Use of Laptops or personal music sets.*
- *Grade of Incomplete, "I" – Only in case of extenuating circumstances due to illness with appropriate doctor's notes.*