

# University of North Texas at Dallas

## SYLLABUS

### Fall 2016

<b>MATH 1580-002 Survey of Mathematics with Applications and Algebra Review (3) Hrs</b>			
<b>Department of</b>	Mathematics and Information Sciences	<b>School of</b>	Liberal Arts and Sciences
<b>Instructor Name:</b>	Helena Grant		
<b>Office Location:</b>	DAL-1 201C		
<b>Office Phone:</b>			
<b>Email Address:</b>	helena.grant@untdallas.edu		
<b>Office Hours:</b>	MW 8:30 - 9:50 AM , W 2:30 – 3:50 PM, TR 11:00 - 12:20 PM,		
<b>Classroom Meetings</b>	Class: MW:1:00 - 2:20 PM in FH336		
<b>Course Catalog Description:</b>	Survey of Mathematics with Applications: (3) hrs. 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. 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.		
<b>Prerequisites:</b>	Consent of department. Satisfies the Mathematics requirement of the University Core Curriculum.		
<b>Required Text:</b>	<ul style="list-style-type: none"> <li>• A Survey of Mathematics with Applications 10e by Allen Angel, Christine Abbott and Dennis Runde.</li> <li>• Textbook ISBN-13: 9780134112107</li> <li>• Access to MyMathLab, Course Code: <b>grant21157</b></li> </ul> <p>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.</p>		
<b>Access to Learning Resources</b>	UNTD Library: phone: (972) 780-3625; web: <a href="http://www.unt.edu/unt-dallas/library.htm">http://www.unt.edu/unt-dallas/library.htm</a> UNTD Bookstore: phone: (972) 780-3652; e-mail: <a href="mailto:1012mgr@fheg.follett.com">1012mgr@fheg.follett.com</a>		
<b>Course Goals</b>			
	<p><b>The goal of this course is to:</b></p> <ul style="list-style-type: none"> <li>• Become confident in your ability to do mathematics with understanding</li> <li>• Explore Mathematics and become a persistent and successful mathematical problem solver</li> <li>• Learn to reason, justify and communicate mathematically</li> <li>• Realize that teaching mathematics is more than just showing people how to manipulate formulas and solve problems.</li> </ul>		
<b>Learning Objectives/Outcomes:</b>			
	<ul style="list-style-type: none"> <li>○ <b>Course Objectives:</b></li> </ul>		

	<p>At the end of this course, the student will be able to:</p> <ul style="list-style-type: none"> <li>• Demonstrate an understanding of basic financial mathematics</li> <li>• Read and construct statistical graphs and interpret data</li> <li>• Demonstrate an understanding of voting methods, apportionment methods, their theory and uses</li> <li>• Apply Mathematics in various areas of daily life.</li> <li>• Demonstrate an understanding of basic logic</li> <li>• Use technology to solve applied Mathematical problems</li> </ul> <p>○ <b>General Education Learning Outcomes:</b>  In this course, the student will:</p> <ul style="list-style-type: none"> <li>• Explore mathematics</li> <li>• Make connections between different areas of knowledge and different ways of knowing</li> <li>• Be able to locate, evaluate and organize information including the use of information technologies.</li> <li>• Think critically and creatively, learning to apply different systems of analysis.</li> <li>• Develop problem solving skills that incorporate multiple viewpoints and differing contexts in their analysis.</li> <li>• Cultivate intellectual curiosity and self-responsibility, building a foundation for life-long learning.</li> </ul>
--	--

**Course Outline**

Priority will be given to understanding the material in depth rather than covering more topics. This schedule is subject to change by the instructor.

TOPICS	TIMELINE
Logic/Algebra	Month of August/September
Consumer Mathematics/Algebra	Month of September/October
Probability and Statistics/Algebra	Month of October/November
Voting & Graph theory	Month of November

**Grading Matrix:**

Category	Percentage	Grade Determination	
Online homework/Attendance/Class Activities	10%	<b>Total Score (%)</b>	<b>Grade</b>
Online Quizzes	10%	90 - 100	A
In Class Quizzes	15%	80 - 89	B
Hour Exams (2 Exams)	30%	70 - 79	C
Final Exam (Comprehensive)	35%	60 - 69	D
Total:	100%	0 - 59	F

**Technology Use Policy:**

Using technology, when appropriate, is allowed. We will be using TI 83/84 series.

**Project policy**

This may be in the form of a class activity with a homework component. Details will be provided in class.

### **Online Assignments Policy:**

There will be different online quizzes and homework assignments that every student needs to complete on line using MyMathLab. Each student should buy an access code for MyMathLab to get access to these assignments. Students must purchase and register in MyMathLab (MML) **by the 2<sup>nd</sup> class meeting**. You may use the temporary two-week access code offered by Pearson to get registered, but must purchase a code within the free-trial period. Students may access MML at any general access lab on campus. More information about the due dates of the assignments will be announced in class.

### **Online Homework Assignments** (on MyMathLab)

- For each section covered in the course there will be an online Homework assignment on MyMathLab.
- You will have an unlimited number of attempts to complete the assignment.
- You must score at least 70% on each Online Homework Assignment before proceeding to the next assignment.

### **Online Quizzes:** (on MyMathLab)

- There will be an Online Quiz on each section covered in class.
- Remember! You must earn at least 70% on the corresponding Online Homework Assignment (on MyMathLab) before you can access that Online Quiz.
- Online Quizzes' due dates will be posted in MyMathLab and there will be no extension for the due times for any reason.
- You are supposed to work the Online Quizzes on your own.
- At the end of the semester only the **best 10** online quizzes will be considered.

### **In-class Quizzes** (in class)

- In-class quizzes will be generally during the first 15 minutes of the class. Be on time in order to get the full allocated time for the quiz.
- There will be 10 in-class quizzes throughout the course. At the end of the semester, I will drop the 3 lowest quiz grades
- There will be no make-ups for any missed in-class quizzes **for any reason**. Instead, at the end of the semester only the best 7 in-class quizzes will be considered. You have 3 quizzes to miss so **do not ask for make ups**.
- The material that will be covered in the quizzes will be announced a head of time.

### **In Class Exams** (in class)

- There will be two Mid-term Exams.
- The final exam will be comprehensive. Students must take the final exam at the prescribed time; no exceptions. Make necessary arrangements now to attend the final exam.
- The student's grade is determined solely by his/her performance on the evaluation criteria and the grade assignments listed above. ***Do not expect Extra Credit assignments!***

### **Email Policy:**

Use your Blackboard email account to contact me. You should check your email account on 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.

**Make-up exam policy:**

Exams should be taken as scheduled in the class time. No makeup examinations will be allowed except for documented emergencies (See Student Handbook). All requests for make-up exams MUST be submitted to the instructor in writing, with the supported documents. It is imperative that you contact your instructor as soon as possible (do **NOT** wait until you return to class!).

**Math Lab hours:**

**Monday & Wednesday: 9:00 AM - 7:00 PM**

**Tuesday & Thursday: 10:00 AM - 7:00 PM**

**Friday: 5:00 PM - 7:00 PM**

**Saturday: 10:00 AM - 3:00PM**

**General Policies:**

Appropriate behavior is expected from all students in this course.

- It is the student's responsibility to stay abreast of all class announcements and changes made to this syllabus in class, whether present or not.
- Respect one another. **Do not work on anything not related to the class and** put forth an honest effort.
- If you must arrive late or leave early, please do so as discreetly as possible and take a seat near the door.
- You are expected to review all graded quizzes, homework and exam papers as soon as they are returned. All questions about the grading of quizzes, homework or exam papers must be reported within **seven** calendar days of the date on which the paper was returned.
- To do well in this course, attend class every meeting on time, be prepared to work for the full class time, bring all necessary materials to class, participate as much as possible, do the homework and solve extra problems steadily every day rather than once a week. Don't be afraid to make mistakes or ask questions, the more you get involved, the better you'll do!
- **Feel free to e-mail me if you have questions.** Don't stress out about math! You have the abilities to do very well as long as you work hard.

**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 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.

**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. Coming to class late or leaving it early is considered an absence. 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. **More than 5 classes of absence may result in being dropped from the course with a WF. A student may NOT get better than a grade of C if he/she missed more than 5 classes.**

#### **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.**

#### **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.

#### **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.

#### **Grade Assignment:**

- 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 (in-term exams, in-class quizzes, on-line quizzes, and the final exam).
- **Do not expect extra credit work or bonus grade assignments.**

**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%20Responsibilities%20and%20Conduct.pdf](http://dallas.unt.edu/sites/default/files/page_level2/pdf/policy/7.001%20Code%20of%20Student%20Rights%20Responsibilities%20and%20Conduct.pdf)

**Important dates:**

Quiz 1	Sep 7
Quiz 2	Sep 12
Quiz 3	Sep 19
Quiz 4	Sep 26
<b>First Hour Exam</b>	<b>Oct 3</b>
Quiz 6	Oct 10
Quiz 7	Oct 17
Quiz 8	Oct24
Quiz 9	Oct 31
<b>Last day to withdraw with an automatic W</b>	<b>NOV 4</b>
Quiz 10	Nov 7
Quiz 11	Nov 14
<b>Second Hour Exam</b>	<b>Nov21</b>
Quiz 12	Nov 28
<b>Final Exam</b>	<b>Dec 12 at 1:00 PM - 3:00 PM</b>