University of North Texas at Dallas
Spring 2017 Syllabus

MATH 1600 (002) Trigonometry (3CR)

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<tr>
<th>Department of</th>
<th>Mathematics and Information Sciences</th>
<th>School of</th>
<th>Liberal Arts and Sciences</th>
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</table>

Instructor Name: Mary Jean Hoyt
Office Location: DAL 1 201C
Office Phone: 972-338-1338
Email Address: mary.hoyt@untdallas.edu

Class Time & Room: MW 1:00 P – 2:20 PM DAL 2 – 308
Office Hours: TR 9:30-10 am; MW 12:30 – 1 pm, 2:20-5:30 pm, 6:50-7:50 pm

Catalog Description: Trigonometry based on both right triangles and the unit circle: graphs of trigonometric functions; inverse trigonometric functions; trigonometric identities and equations; laws of sines and cosines; polar coordinates; DeMoivre's theorem; vectors.

Prerequisites: MATH 1100 with grade of C or better. Satisfies the Mathematics requirement of the University Core Curriculum.

Required Text: WebAssign (http://webassign.net) Class Key: unt 4564 4119 (includes an e-book)

Core Goals and Objectives: This course addresses the core objectives of critical thinking skills, communication skills, and empirical and quantitative skills. 1. Critical Thinking Skills – to include thinking, innovation, inquiry, and analysis, evaluation and synthesis of information. 2. Communication Skills – to include effective development, interpretation and expression of ideas through written, oral and visual communication. 3. Empirical and Quantitative Skills – to include the manipulation and analysis of numerical data or observable facts in informed conclusions.

Learning Objectives/Outcomes: At the end of this course, the student will be able to:
1. Gain awareness of fundamental concepts of functions and other concepts necessary for learning calculus, and be able to demonstrate knowledge by solving various precalculus problems.
2. Be able to solve applied mathematics problems with require both analytical and numerical reasoning.
3. Be able to locate, evaluate and organize information and express the conclusion in mathematical topics in precalculus level.
4. Be able to think critically and creatively so as to apply different systems of analysis, algebraic and numerical, and then to compare the results from the two systems.
5. Acquire problem solving skills that incorporate multiple viewpoints and different contexts in their analysis.
7. Be able to read, write and manipulate mathematical phrases according to mathematical grammar.
8. Be able to read and write mathematical sentences according to mathematical grammar.

Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated through the class website and the official UNT e-mail. Besides the scheduled assignments, additional readings and activities may be added. Such changes will be communicated through the class page.

<table>
<thead>
<tr>
<th>Week 1</th>
<th>Tuesday</th>
<th>6.1</th>
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<tbody>
<tr>
<td></td>
<td>Thursday</td>
<td>6.2</td>
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<tr>
<td>Week 2</td>
<td>6.3</td>
<td>6.4</td>
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<tr>
<td>Week 3</td>
<td>6.5</td>
<td>6.5</td>
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<tr>
<td>Week 4</td>
<td>Review</td>
<td>Exam 1</td>
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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.

- **Exams**: written tests designed to measure the knowledge and the understanding on the course materials. This class has three cumulative exams which build on previous knowledge and a final exam.
- **On-line Assignments**: computer-based assignments designed to supplement and reinforce the course materials. These assignments are completed using webassign. These assignments are due on the assigned date. After the deadline these assignments may be completed for partial credit.
- **Written Assignments**: small-scale written assignments designed to supplement, reinforce and assess the course materials and the ability to write mathematical phrases, sentences and paragraphs. These assignments may be completed during the class period or outside of the class time and submitted using Blackboard. Late assignments will not be accepted.

Grading Policy:

<table>
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<tr>
<th>Activities/Assignments</th>
<th>Value (percentages)</th>
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<tbody>
<tr>
<td>Exams</td>
<td>30%</td>
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<tr>
<td>Final</td>
<td>30%</td>
</tr>
<tr>
<td>Written Assignment</td>
<td>20%</td>
</tr>
<tr>
<td>Online Assignment</td>
<td>20%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>100%</strong></td>
</tr>
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Grade Determination

A: $90\% \leq (\text{Total Score})$  
B: $80\% \leq (\text{Total Score}) < 90\%$  
C: $70\% \leq (\text{Total Score}) < 80\%$  
D: $60\% \leq (\text{Total Score}) < 70\%$  
F: $(\text{Total Score}) < 60\%$.  

Week 5 | 5.1 | 5.2  
Week 6 | 5.3 | 5.4  
Week 7 | **Review** | Exam 2  
Week 8 | 7.1 | 7.2  
Week 9 | 7.3 | 7.4  
Week 10 | 7.5 | **Review**  
Week 11 | Exam 3 | 8.1  
Week 12 | 8.2 | 8.3  
Week 13 | 8.4 | 9.1, 9.3, 9.4  
Week 14 | 9.4 | 9.2, 9.5  
Week 15 | **Review** | **Review**  
Week 16 | **Review** | **Review**  
Final | **Final Exam** |
Instructor Specific Policies and Procedures

Exam Policy:
Exams must be taken in person as scheduled, except for documented emergencies approved by the instructor in individual bases. A one-page formula sheet is allowed but not the class note. TI-84 level calculators are allowed, but calculators with computer algebra system (such as TI-89, TI-92 or Voyage 2000) are not allowed during the exam. Other than pre-approved calculators, no other computing aid (such as those supported by tablets and smart phones) is allowed.

Assignment Policy:
The written assignments must be submitted electronically through the course website. Use a single-file pdf format to ensure the safe submission. Late submission will be accepted with the late penalty of 20% per day and will not be accepted after 5 class days. **No assignments will be accepted after May 5.**

Technology Requirement:
Every assignment must be submitted in a single-file pdf format. This can be done by some free websites such as https://online2pdf.com/convert-jpg2pdf. **Detailed instruction will be communicated through the class page.**

Math Lab Hours:

- **Monday - Thursday** 9:00a - 7:00p
- **Friday** 5:00p - 7:00p

Please take advantage of this service that is available to you. Our Math Lab is staffed with student tutors who have been recommended by our UNT Dallas faculty, and we have tutors that focus on all different levels of math. are located in DAL 1, 3rd floor.

University Policies and Procedures

Online “Netiquette”:
Emails should use proper “netiquette,” i.e., no writing in all caps (usually denotes yelling), no curse words, and no “flaming” messages (angry, personal attacks). Racial, ethnic, or gender slurs will not be tolerated, nor will pornography of any kind. Any violation of netiquette policies may result in a loss of points or removal from the course. Repeated online misconduct may be subject to more serious sanctions, such as warnings and other sanctions in accordance with the University’s policies and procedures. Refer to the Student Code of Student Rights Responsibilities and Conduct at [http://www.untdallas.edu/osa/policies](http://www.untdallas.edu/osa/policies). Respect is a given principle in all online communication. Therefore, please be sure to proofread all of your written communication prior to submission.

Students with Disabilities (ADA Compliance):
The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (i.e., 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 972-780-3632.

Blackboard Learn Accessibility Statement: University of North Texas at Dallas is committed to ensuring its online and hybrid courses are usable by all students and faculty including those with disabilities. If you encounter any difficulties with technologies, please contact our ITSS Department. To better assist them, you would want to have the operating system, web browser and information on any assistive technology being used.

Blackboard Learn course management system's accessibility statement is also provided: [http://www.blackboard.com/Platforms/Learn/Resources/Accessibility.aspx](http://www.blackboard.com/Platforms/Learn/Resources/Accessibility.aspx)
Instructional technology tools, such as Turnitin, Respondus, Panopto, and publisher cartridge content (i.e. MyLab, Pearson, etc.) may NOT be fully ADA compliant. Please contact our Disability Office should you require additional assistance utilizing any of these tools.

Student Evaluation of Teaching Effectiveness Policy:
The Student Evaluation of Teaching Effectiveness (i.e., 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 Student Rights Responsibilities and Conduct at http://www.untdallas.edu/osa/policies for complete provisions of this code.

TurnItIn Statement:
Students may be required to submit written assignments for this class to Turnitin, a web-based plagiarism detection service. Before submitting your paper to Turnitin, please remove your title page and other personal information. (OPTIONAL: Any paper that is not submitted to Turnitin prior to submission to the instructor will not be accepted by the instructor and will not be graded).

Attendance and Participation Policy:
The University attendance policy is in effect for this course. Class attendance in the Blackboard classroom 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 the discussion board. Online presence and participation in all class discussions is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible for notifying the instructor if they will be missing online class requirements, and they must share their reason for missing class.

Online Attendance: Attendance for this online or hybrid course is considered when you are logged in and active in Blackboard, i.e., posting assignments, taking quizzes, or completing Discussion Boards. If you are absent/not active in the course shell, it is YOUR responsibility to let the instructor know immediately, upon your return, the reason for your absence if it is to be excused. Note that all instructors will follow the university policy of 14 consecutive days of unexcused absences/inactivity (i.e., failure to post assignments, take quizzes, or complete Discussion Boards) in a distance learning course resulting in failure of 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 Office of Student Life as the instructor deems appropriate.

Technology Requirements:
Blackboard Learn 9.1 is the platform software for this course.

- Internet Explorer® 10 from Microsoft (26 October 2012 for Windows 8, 26 February 2013 for Windows 7)
- Internet Explorer 9 from Microsoft (14 March 2011). There are some configuration options for Internet Explorer that may make some features of Blackboard Learn difficult to use.
- Safari® 6 from Apple (25 July 2012)
- Safari 5 from Apple (7 June 2010)
- Safari 5 for Windows is an exception. Apple’s continued support for this browser is unclear, and Blackboard does not test it.
- Firefox® 21 (stable channel) from Mozilla (14 May 2013)
- Firefox 17 (ESR channel) from Mozilla (14 May 2013)
- Chrome™ 27 (stable channel) from Google (21 May 2013)