Semester and Year: Fall 2019
Online Meeting Dates: 100% online from 8/26 through 10/18
Section: 81410
Instructor: Dr. Jimin Tian
Contact Info: Office: M138 (972)2386039 JTian@dcccd.edu O.H.10:50 -11:50 am MWF, 11:00-12:00 pm TR
Last date to withdraw: 10/4 Friday
Final Exam Day and time: Available from 12:01 am Wed 10/16 till 11:59 pm 10/17 Thursday
MyMathLab Course ID: tian17541

Evaluation Procedures: Four Unit Exams (15% each, total 60%), Three Written Assignments posted on eCampus (counted as 5%), Homework on Mymathlab 15%, The comprehensive final exam (20%)
Be careful, No-Make-Up AT ALL for all students!! Please turn in your scans of working steps by email RIGHT AFTER each exam to get your test grade, otherwise no points.
(ALL Due Days are based on Dallas Time)

Attendance Policy: In order to be successful, students must attend and participate in enrolled courses.

Required Materials:

2. A graphing calculator is required. Any calculator in the TI-83 or Ti-84 family is recommended. However, it should be one without a computer algebra system or algebraic manipulation ability.

A 14-day temporary access to MyMathLab is available so that you may get started on the course. Your access must be updated with a valid, purchased code prior to the end of the 14 days or your access will be closed. Follow the instructions in the emails that you receive in order to update your account.

Class Calendar:
All due times are 11:59 pm Dallas time on the due date stated in the calendar.

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<tr>
<th>Content to be covered</th>
<th>Assignments</th>
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<tr>
<td>Week 1 8/26 – 9/1</td>
<td>Getting Started in MML</td>
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<tr>
<td>Introduction 6.1, 6.2, 6.3</td>
<td>6.1 Instructional Videos, Reading Assignments</td>
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<td></td>
<td>Homework Problems</td>
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Revised for Fall 2019 1 6/1/2019
Week 2  
9/2 – 8  
Review for Exam 1 (6.1-6.6)  
Exam Review due Sunday

Week 3  
9/9 – 15  
Exam 1  
7.1, 7.2  
Exam 1 Available: 12:01 am Monday till 11:59 pm Tuesday

Week 4  
9/16 – 22  
7.3, 7.4  
7.5  
Review for Exam 2 (7.1-7.5)  
Exam Review due Sunday

Week 5  
9/23 – 29  
Exam 2  
8.1, 8.2, 8.3, 8.4  
Exam 2 Available: 12:01 am Monday until 11:59 pm Tuesday

Week 6  
9/30 – 10/6  
8.5  
Review for Exam 3 (8.1-8.5)  
Exam Review due Sunday

Exam 3  
9.1, 9.2, 9.3  
Exam 3 Available: 12:01 am Monday until 11:59 pm Tuesday

Week 7  
10/7 – 13  
9.4  
Exam 4 Review (9.1-9.4)  
Exam 4 Review due on Sunday

Exam 4  
10.3  
Exam 4 Available: 12:01 am Monday till 11:59 pm Tuesday

Final Week  
10/14  
10.4  
10.5  
Review for Final Exam  
Review for Final Exam due Wed 10/16

Final Exam  
Final Exam Available from 12:01 am Wed 10/16 until 11:59 pm 10/17 Thursday

Instructor Policies and Suggestions for Student Success:

Mathematics is NOT a spectator of sports, and the practice makes the improvement only.

COURSE SPECIFIC INFORMATION

Catalog Course Description
In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included.

Prerequisites
MATH 1314 or equivalent
Learning Outcomes
Upon successful completion of this course, students will be able to:
1. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in degrees and radians.
2. Graph trigonometric functions and their transformations.
3. Prove trigonometric identities.
4. Solve trigonometric equations.
5. Solve right and oblique triangles.
6. Use the concepts of trigonometry to solve applications.
7. Compute the angular and real number values of the inverse trigonometric functions of real numbers.
8. Use vectors to describe physical situations.
9. Find and use the trigonometric (polar) form of complex numbers.

Core Statement
Math 1316 is a core course for Core 2015. It is in the Foundational Component Area of Mathematics. Courses in this category focus on quantitative literacy in logic, patterns, and relationships. Courses involve the understanding of key mathematical concepts and the application of appropriate quantitative tools to everyday experience.

The following core objectives will be addressed and assessed through the content covered in this course:
- Critical Thinking Skills: to include creative thinking, innovation, inquiry, and analysis, evaluation and syntheses of information
- Communication Skills: to include effective development, interpretation and expression ideas through written, oral and visual communication
- Empirical and Quantitative Skills: to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Specific Content Coverage

<table>
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<tr>
<th>Section</th>
<th>Title</th>
<th>Objectives Covered</th>
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<td>6.1</td>
<td>An Introduction to Angles: Degree and Radian measure</td>
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<tr>
<td>6.2</td>
<td>Application of Radian measure</td>
<td>1, 6</td>
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<tr>
<td>6.3</td>
<td>Triangles</td>
<td>6</td>
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<td>6.4</td>
<td>Right Triangle Trigonometry</td>
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<tr>
<td>6.5</td>
<td>Trigonometric Functions of General Angles</td>
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<tr>
<td>6.6</td>
<td>The Unit Circle</td>
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<tr>
<td>7.1</td>
<td>The Graphs of Sine and Cosine</td>
<td>2</td>
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<tr>
<td>7.2</td>
<td>More on Graphs of Sine and Cosine: Phase Shift</td>
<td>2</td>
</tr>
<tr>
<td>7.3</td>
<td>The Graphs of the Tangent, Cosecant, Secant, and Cotangent Functions</td>
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<tr>
<td>7.4</td>
<td>Inverse Trigonometric Functions I</td>
<td>7</td>
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<td>7.5</td>
<td>Inverse Trigonometric Functions II</td>
<td>7</td>
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<tr>
<td>8.1</td>
<td>Trigonometric Identities</td>
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<tr>
<td>8.2</td>
<td>The Sum and Difference Formulas</td>
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<tr>
<td>8.3</td>
<td>The Double-angle and half-Angle Formulas</td>
<td>3</td>
</tr>
<tr>
<td>8.4</td>
<td>The product-to-Sum and Sum-to-Product Formulas</td>
<td>3</td>
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</tbody>
</table>
Academic Dishonesty in Math Classes
Academically dishonest behavior is, in general, the representation of another’s work as one’s own. This includes unauthorized collaboration between students, and on exams it includes using books, notes, or other unauthorized materials or websites or apps during the exam. Students who behave in academically dishonest ways may have their grade penalized, or be subject to disciplinary action by the Dean of Students. Students who collaborate during exams or use unauthorized materials or websites or apps on exams may, at the instructor’s discretion, have the exam grade lowered or be given a grade of zero. In the instance that a student is given the grade of zero on a unit exam, the right of having any unit exam grade replaced with the Final Exam grade is forfeited. Students who are academically dishonest on the Final Exam may, at the instructor’s discretion, have the grade lowered, be given a grade of zero on the final, or be given the grade of F in the course.

RICHLAND COLLEGE INSTITUTIONAL POLICIES
Institutional Policies relating to this course can be accessed from the following link: www.richlandcollege.edu/syllabipolicies