INSTRUCTOR’S INFORMATION
(Instructor reserves the right to amend this information as necessary.)

Semester and Year: Spring 2017
Meeting Dates: 03/20/17 - 05/10/17
Section: 83203
Class time and days: Monday and Wednesday 01:50PM - 04:40PM
Room: T210
Instructor: Ahmed Ali
Contact Info: A110 – phone message 972-238-6140 AhmedAli@dcccd.edu
Last date to withdraw: 04/29/2017
Final Exam Day and time: 05/10/17
MyMathLab Course ID: In the syllabus in ecampus
Evaluation Procedures: The grade is computed by:
15% Assignments in Mymathlab
45% 3 Exams (15% each)
30% Final Exam
Grades are assigned according to the following scale:
A: [90, 100], B: [80, 90), C: [70, 80), D: [60, 70), F: [0, 60]

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

Required Materials:
2. A graphing calculator is required. A calculator in the TI-83 or TI-84 families 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. 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 given in the reminder emails you will receive.

CAUTION:
Be careful not to purchase a MyMathLab code for Trigsted Trigonometry. It is not the correct code for this course and will cause you to have to purchase another code (the correct one) for this course.
Class Calendar:

<table>
<thead>
<tr>
<th>Week</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
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<tbody>
<tr>
<td>1</td>
<td>20-Mar 1.1, 1.2, 1.3</td>
<td>21-Mar 1.4, 1.5, 1.6</td>
<td>22-Mar 2.4, 2.5, Review</td>
<td>23-Mar 6.1, Review</td>
<td>24-Mar 5.2, 5.3</td>
<td>25-Mar 1-Apr</td>
<td>26-Mar 2-Apr</td>
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<td>2</td>
<td>27-Mar 2.1, 2.2, 2.3</td>
<td>28-Mar 3.1, 3.2, Test1</td>
<td>29-Mar 4.3, 4.4, Review</td>
<td>30-Mar 3.3, 3.4, 3.5</td>
<td>31-Mar 6-Apr</td>
<td>1-Apr 7-Apr</td>
<td>2-Apr 8-Apr</td>
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<td>3</td>
<td>3-Apr 10-Apr 3.6, 4.1, 4.2</td>
<td>11-Apr 12-Apr 5.2, 5.3</td>
<td>13-Apr 14-Apr</td>
<td>15-Apr 16-Apr</td>
<td>17-Apr 18-Apr</td>
<td>19-Apr 5.1, Test2</td>
<td>20-Apr 21-Apr</td>
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<td>4</td>
<td>24-Apr 5.4, 5.5</td>
<td>25-Apr 26-Apr 6.1, Review</td>
<td>27-Apr 28-Apr</td>
<td>29-Apr 30-Apr</td>
<td>1-May 6.2, Test3</td>
<td>2-May 3-May 6.3</td>
<td>4-May 5-May</td>
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<td>5</td>
<td>1-May 6.2, Test3</td>
<td>2-May 3-May 6.3</td>
<td>4-May 5-May</td>
<td>6-May 7-May</td>
<td>8-May 8-May</td>
<td>9-May Review</td>
<td>10-May Final Exam 1:50 – 3:40</td>
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**Instructor Policies and Suggestions for Student Success:** Grades are based on your performance on graded tasks. In order to meet all graded activity due dates/times; written exams will be offered during the times scheduled in the calendar provided in this syllabus, no make-ups, and no exceptions. Also, in order not to interrupt the class session, students are asked to turn off all cell phones, i-pad, (no headphones at all), i-phone prior to the beginning of class. Electronics device are allowed only for instructional purpose (like: using learning catalytics or for some other interactive math activities in class). Students not conforming to this policy will be asked to leave class.
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

Note: Math 1324 is not a sufficient equivalent course.

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>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Objectives covered</th>
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<tr>
<td>1.2</td>
<td>Radian Measure, Arc Length, And Area</td>
<td>6</td>
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<td>1.3</td>
<td>Angular and Linear Velocity</td>
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<tr>
<td>Section</td>
<td>Topic</td>
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<tr>
<td>1.4</td>
<td>The Trigonometric Functions</td>
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<tr>
<td>1.5</td>
<td>Right Triangle Trigonometry</td>
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<tr>
<td>1.6</td>
<td>The Fundamental Identity and Reference Angles</td>
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</tr>
<tr>
<td>2.1</td>
<td>The Unit Circle and Graphing</td>
<td>1,2</td>
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<tr>
<td>2.2</td>
<td>The General Sine wave</td>
<td>2</td>
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<tr>
<td>2.3</td>
<td>Graphs of the Secant and Cosecant Functions</td>
<td>2</td>
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<td>2.4</td>
<td>Graphs of the Tangent and Cotangent functions</td>
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<td>2.5</td>
<td>Combining Functions</td>
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<tr>
<td>3.1</td>
<td>Basic Identities</td>
<td>3</td>
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<td>3.2</td>
<td>Verifying Identities</td>
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<td>3.3</td>
<td>Sum and Difference Identities for Cosine</td>
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<tr>
<td>3.4</td>
<td>Sum and Difference Identities for Sine and Tangent</td>
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<td>3.5</td>
<td>Double-Angle and Half-Angle Identities</td>
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<td>3.6</td>
<td>Product and Sum Identities</td>
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<td>4.1</td>
<td>The Inverse Trigonometric Functions</td>
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<td>4.2</td>
<td>Basic Sine, Cosine, and Tangent Equations</td>
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<td>4.3</td>
<td>Equations Involving Compositions</td>
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<tr>
<td>4.4</td>
<td>Trigonometric Equations of Quadratic Type</td>
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<td>5.1</td>
<td>The Law of Sines</td>
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<td>5.2</td>
<td>The Law of Cosines</td>
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<td>5.3</td>
<td>Area of a Triangle</td>
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<td>Vectors</td>
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<td>5.5</td>
<td>Applications of Vectors</td>
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<td>6.1</td>
<td>Complex Numbers</td>
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<td>6.2</td>
<td>Trigonometric Form of Complex Numbers</td>
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<tr>
<td>6.3</td>
<td>Powers and Roots of Complex Numbers</td>
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**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 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 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 this 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 POLICIES AND PROCEDURES

Academic Honesty
Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct available at Richland College Student Code of Conduct.

Academic Progress
Students are encouraged to discuss academic goals and degree completion with their instructors. Specific advising is available throughout the semester. Check Richland College Advising for more details.

Americans with Disabilities Act
If you are a student with a disability and/or special needs who requires accommodations, please contact the college Disability Services Office at 972-238-6180 (Voice/TTY), visit Thunderduck Hall, suite T120, or go to Richland College Disability Services Office.

Campus Emergency Operation Plan
Richland College and the Dallas County Community College District have developed policies and procedures for dealing with emergencies that may occur on campus. To familiarize yourself with these procedures, please take time to watch the overview video: DCCCD Media Video. The complete Emergency Operations Plan can be viewed and printed at the following website: Richland College Emergency. If you have questions or concerns, please contact the Richland College Office of Emergency Management. This office can be reached by phone (972-238-3794) or by e-mail at BOrton@dcccd.edu.

Contingency Plan
Richland College has developed an Instructional Contingency Plan for Temporary College Closing for On-Campus Courses. Please discuss this contingency plan with your instructor. For distance learning courses, your instructor will use email to contact students in the event of extended technology downtime. To assure work in the class continues, it is important for all students to have an accurate email address recorded in both eCampus and eConnect.

Discrimination and Sexual Misconduct Reporting Information and Requirements
Richland College is committed to ensuring that all community members learn and work in a welcoming and inclusive environment. We support the well-being and development of our students. Richland College prohibits discrimination, including harassment, against any employee on the basis of race, color, religion, national origin, age, disability, sex, sexual orientation, gender, gender identity, gender expression, or any other basis prohibited by law.
Title VII of the Civil Rights Act of 1964 prohibits retaliation or discrimination based on race, color, religion, age, and national origin. Title IX prohibits discrimination based on sex, sexual orientation, gender identity, and/or gender expression (failure to conform to stereotypical notions of masculinity or femininity); sexual misconduct (including sexual
harassment, non-consensual sexual contact, non-consensual sexual intercourse, and sexual exploitation); and sex/gender-based harassment.

Richland College faculty and staff members, unless deemed a confidential resource by law, have an obligation to report and respond to certain issues relating to the health and safety of college community members. This includes information shared with faculty and staff members in person, through electronic communications, or in class assignments. Faculty and staff members must report to the appropriate college officials any allegation of discrimination or harassment. In addition to reporting all discrimination and harassment claims, faculty and staff members are required to report allegations of dating or domestic violence, stalking or retaliation, child abuse or neglect, and/or credible threats of harm.

After receiving a report made by an employee, a Richland College official may want to contact the individual who initially shared the information with the employee. In almost all cases, the individual who shared the information with an employee may choose whether or not to speak with the Richland College official. The college does not guarantee the confidentiality of a report of sexual misconduct or discrimination unless the report is made to a Richland College Licensed Professional Counselor Richland College Counseling Services, who does not have this reporting responsibility. Limits to counselor confidentiality are available at Richland College Counseling Services Confidentiality.

A report may also be made directly to the Richland College Title IX/EO Coordinator or Deputy Coordinator:
Bill Dial, PhD, PHR, SHRM-CP
Executive Director of Human Resources
Title IX Coordinator
bdial@dccc.edu
972-238-6386

Ms. Gloria Williams
College Director of Employee Relations
Deputy Title IX Coordinator
gloriawilliams@dccc.edu
972-238-6241

Further information may be found on the College website: Richland College Human Resources - TITLE IX - Sexual Misconduct

Financial Aid Attendance and Participation Requirements

Your instructor is required by law to validate/certify your attendance in your on-campus or online course(s) in order for you to receive financial aid. To meet the attendance requirement, you must attend and participate in your on-campus or online course(s) prior to the course certification date and continue beyond the course withdrawal date. You must participate in an academic related activity pertaining to the course such as but not limited to the following examples: initiating contact with your instructor to ask a question about the academic subject studied in the course; submitting an academic assignment; taking an exam; completing an interactive tutorial; participating in computer-assisted instruction; attending a study group that is assigned by the instructor; or participating in an online discussion about academic matters relating to the course. In an online class, simply logging in is not sufficient by itself to demonstrate academic attendance. You must
demonstrate that you are participating in your online class and are engaged in an academically related activity such as in the examples described above.

**Religious and Ethnic Holiday Observance**
Richland College honors the right of each student to observe the practices of their belief system. It is the student’s responsibility to provide their instructors a written justification for a religious accommodation by the third class meeting or the fourth day after the course begins for online courses. It is the responsibility of the instructor and student to negotiate completion of all missed assignments prior to the absence, if possible.

**Repeating a Course**
Dallas County Community Colleges charge additional tuition to students registering the third or subsequent time for a course taken at any of the DCCCD colleges since the fall 2002 semester. All third and subsequent attempts of the majority of credit and continuing education/workforce training courses will result in an additional tuition charge. Developmental Education and some other courses will not be charged a higher tuition rate. See Third Attempt to Enroll in a Course at [DCCCD Third Course Attempt](#).

**Richland College’s Quality Enhancement Plan**
Richland College is implementing its Quality Enhancement Plan (QEP) in select classes. The QEP provides techniques, practices, and tools to help students develop the habits, traits or behaviors needed to be effective and successful lifelong learners in college and in life. For more information, please log onto [Richland College Quality Enhancement Plan](#).

**Six Drop Rule**
For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access [DCCCD Six Drop Rule](#).

**Student Survey of Instruction**
The Student Survey of Instruction (SSI) is designed to acquire information on the student perception of the quality of courses, faculty, and instruction, and to provide feedback information for improvement. In order to minimize the disruption in the classroom, the SSI is now being administered online in select courses. Students will take the survey through a link in eCampus. If you receive a request to complete the SSI, please do so as soon as possible. By completing this questionnaire, you will help the college and your instructors determine how we might improve your educational experiences. Your identity will remain strictly confidential and anonymous.

**Syllabus Change Disclaimer**

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Instructors reserve the right to amend a syllabus as necessary.

**Texas Success Initiative Assessment Requirements and Course Placement Guidelines**
The Texas Success Initiative Assessment (TSIA) was designed to ensure that students enrolled in Texas public colleges and universities have the basic academic skills needed to be successful in college-level course work. The TSIA requires assessment, remediation (if necessary), and advising of students who attend a public college or university in the state of Texas. Passing the TSIA is a prerequisite for enrollment in many college-level classes such as English 1301/1302, History 1301/1302, and Math 1314. Students who do not meet assessment standards must complete developmental courses in the deficient area with a grade of C or higher. **Additional information is available from the TSI Office in T170T or T170S (phone no. 972-238-6115 or 972-238-3787) or at Richland College Texas Success Initiative - TSI.**

**Third Attempt to Enroll in a Course**
See the policy at [DCCCD Third Attempt to Enroll in a Course](#)

**Withdrawal Policy**
If you are unable to complete this course, it is your responsibility to officially withdraw by the official drop date for this course. Failure to do so will result in a performance grade, usually an “F.” If you drop a class or withdraw from the college before the official drop deadline, you will receive a “W” (withdraw). For more information about withdrawal procedures access the [Richland College Admissions page on policy/procedures](#) or contact the [Admissions/Student Records office](#) at 972-238-6948 (Thunderduck Hall, T170).