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

This is a Dual Credit Class offered at a High School.

Semester and Year: Spring 2015
Meeting Dates: Jan 6 – Jun 5
Section: 83920
Class time and days: M-F 9:00-9:50
Room: E231 at BHS
Instructor: Good
Contact Info: 469-593-7000
Clarkgood@dcccd.edu
Last date to withdraw: 5/1/2015
Final Exam Day and time: Week of Jun 1 as assigned by BHS

Evaluation Procedures:
25% Final Exam
20% Test Graphing Trig Functions
20% Test Identities and Laws of Sines / Cosines
20% Test Polar Coordinates / Vectors
15% Class work

The class work grade will be comprised of 3 grades, one from each 6 weeks period, in which grades not separately listed above will be averaged using the weighting assigned in the high school course. These three grades will be averaged to determine the 15% class work grade.

Grades will be assigned based on the following:
[90,100] – A; [80,89] – B; [70,79] – C; [65,69] – D; [0,64] - F

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

Required Materials:

1. The textbook required for this course is Stewart, Precalculus: Mathematics for Calculus, 5e. Thomson, 2006 – provided by the school (ISBN for 5th edition: 0-534-49277-0)

2. A graphing calculator is required. A calculator from the TI-83 or TI-84 families is recommended. It should be one without a computer algebra system or algebraic manipulation ability. This should be one without a computer algebra system or algebraic manipulation ability.

Class Calendar:
10/28/14 Revised for Spring 2015
Students began material in December covering 6.1, 6.2
Week of 1/5: 6.3, 5.1
Week of 1/12: 5.1, 5.2, (Test Trigonometry of Angles)
Week of 1/19: 5.3, 5.4, 5.5
Week of 1/26: Test Graphing Trig Functions
Week of 2/2: 7.4, 7.5, (Test Basic Trig Equations)
Week of 2/9: 7.1, 7.2
Week of 2/16: 7.3, (Test Identities)
Week of 2/23: 6.4, 6.5
Week of 3/2: Test Identities and Law of Sines / Cosines
Week of 3/16: 8.1, 8.2
Week of 3/23: 8.2, 8.3
Week of 3/30: 8.4, 8.5
Week of 4/6: Test Polar Coordinates / Vectors
Week of 4/13 – 5/25: Topics beyond Math 1316

Instructor Policies and Suggestions for Student Success: Students are expected to follow all rules for Berkner High School and Richland college. Deadlines will be enforced with a late grade policy consistent with those in place at Berkner High School (20% deduction on day one and no acceptance after day 2). Tests may be retaken by attending tutoring hours, reviewing the prior test, and completing sufficient work to show that you have prepared for retaking the test. You may then, at the teacher’s discretion, retake the test during tutoring hours.

College Policies and Procedures:

For Institution Policies, please refer to Richland College Institution Policies (http://www.richlandcollege.edu/syllabusinfo/)

RICHLAND COLLEGE'S QUALITY ENHANCEMENT PLAN - LEARNING TO LEARN: DEVELOPING LEARNING POWER:

Richland College is piloting 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 check QEP 2013 (http://www.richlandcollege.edu/qep)

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 Steps to Success (http://www.richlandcollege.edu/admissions/process.php)

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 MATH 1414 or equivalent
**COURSE OBJECTIVES and LEARNING OBJECTIVES:**
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 INFORMATION**
Math 1316 is a core course for Core 2014. 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 FOR THIS COURSE**

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