MATH 1316
Student Course Document – Revised Spring 2012

1. **Course Title:** Trigonometry

2. **Prerequisite:** Engl 0305 or 0316 (developmental reading) or placement by testing
   **Corequisite:** Math 1314 and Engl 0307 or 0326 (developmental writing) or placement by testing
   The Math Department strongly recommends that Math 1314 be completed before taking Math 1316

3. **Credit:** Three (3) semester hours

4. **Materials Needed:**
   4.1 *Textbook:* *Trigonometry*, 9th edition; by Margaret L. Lial, John Hornsby, David I. Schneider; Addison –Wesley
   4.2 *Workbook:* *Trigonometry (Stud Sol Man)*, 9th edition; by Margaret L. Lial (optional)
   4.3 *Calculator:* A scientific or graphing calculator may be required by some instructors.

5. **Purpose:**
   The purpose of Math 1316 is to introduce students to the functions of trigonometry so that they may use them to solve measurement problems in various fields, and manipulate trigonometric functions in the ways that will be required in later math and science courses.

6. **Major Course Objectives:**
   6.1 Define and use the definitions of the trigonometric functions.
   6.2 Solve any given right triangle.
   6.3 Compute trigonometric function values of any angle in degrees or radians.
   6.4 Graph trigonometric functions.
   6.5 Verify trigonometric identities and use identities to rewrite or simplify trigonometric expressions.
   6.6 Simplify expressions containing inverse trigonometric functions.
   6.7 Solve trigonometric equations.
   6.8 Solve oblique triangles.
   6.9 Introduce complex numbers in trigonometric form and compute products, quotients, powers, and roots.

7. **General Course Outline:**
   Chapters: 1, 2, 3, 4, 5, 6, 7, 8. Omit sections 6.4 and 8.6. Sections 4.4 and 8.5 are optional.

8. **MyLoneStar:**
   MyLoneStar gives students, faculty, and staff access to important academic information. It allows a student to register, search for courses, obtain financial aid information, pay tuition and fees, and view course grades. From [www.lonestar.edu](http://www.lonestar.edu), click on MyLoneStar at the top right corner. Follow the instructions for securing your user name and password under the Self-Service Tools. Please contact the helpdesk at 1-866-614-5014 or send an email to [ots@lonestar.edu](mailto:ots@lonestar.edu) for further assistance.

9. **Withdrawal Policy/Student Drop Limit:**
   Students who enrolled in Texas public institutions of higher education as first-time college students during the Fall 2007 term or later are subject to section 51.907 of the Texas Education Code, which states that an institution of higher education may not permit a student to drop (withdraw with a grade
of “W”) from more than six courses. This six-course limit includes courses that a transfer student has previously dropped at other Texas public institutions of higher education if they fall under the law. Students should be sure they fully understand this drop limit before they drop a course. Please visit the admissions office or counseling/advising center for additional information and assistance. If you feel it is in your best interest to drop this class it is your responsibility to do so before the Drop Date passes.

10. **Academic Integrity:**

The Lone Star College System upholds the core values of learning: honesty, respect, fairness, and accountability. The system promotes the importance of personal and academic honesty. The system embraces the belief that all learners-students, faculty, staff and administrators-will act with integrity and honesty and must produce their own work and give appropriate credit to the work of others. Fabrication of sources, cheating, or unauthorized collaboration is not permitted on any work submitted within the system.

The consequences for academic dishonesty are determined by the professor and academic dean, or the professor and chief student services officer and can include but are not limited to:

1. Having additional class requirements imposed,
2. Receiving a grade of zero or “F” for an exam or assignment,
3. Receiving a grade of “F” for the course,
4. Being withdrawn from the course or program,
5. Being expelled from the college system.

11. **Division Counselor:**

Rhonda Cannon, Counselor for Math and Natural Sciences, is available in Winship 115G to assist you in meeting your academic, career, and personal goals. Confidential counseling services are available by appointment to help you overcome academic challenges, make a career choice, plan your transfer, and to gain self-understanding. To schedule an appointment call 281-618-5480 or email rhonda.cannon@lonestar.edu or stop by Winship 115G.

* If you are currently enrolled in Engl 0305/0316 or Engl 0307/0326 and drop any of these courses, then you will be dropped from this math class.

* Students with disabilities, who wish to request accommodations in this class, must notify the Disability Services Office as soon as possible so that the appropriate arrangements may be made. Students requesting accommodations must provide documentation of his/her disability to a Disability Services counselor. For more information, call or visit the Disability Services Office at SB 110, (281) 618-5481.