Math 1316.060 (Trigonometry)
Department of Mathematics and Statistics
Fall 2019

A. COURSE INFORMATION

Course number/section: Math 1316.060
Class meeting time: TTR: 11:00-12:15
Class location: CS111
Course Website: bb9.tamucc.edu

B. INSTRUCTOR INFORMATION

Instructor: Archana Krishnagiri
Office location: CI 351
Office hours: TTR: 9:45-10:45, 12:45-1:45, W: 10:45-11:45
Telephone: 361-825-2430
e-mail: archana.krishnagiri@tamucc.edu
Appointments: By e-mail

C. COURSE DESCRIPTION

Trigonometric functions, identities, height and distance, equations involving Trigonometric functions, solutions of triangles, area, vectors and their basic applications, Inverse functions.

D. PREREQUISITES AND COREQUISITES

Math 1314 or placement into trigonometry.

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Trigonometry by Lial, Hornsby and Schneider (10th Edition). Plus the MyLabsplus student access code. In addition, you will need a TI-83 calculator. You can get the access code for Mylabsplus either in university book store or online. Link for online homework is www.tamucc.mylabsplus.com.

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging
areas for students and adjust their teaching approach to facilitate learning.

Upon successful completion of this course, students will:

1. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both 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

G. INSTRUCTIONAL METHODS AND ACTIVITIES

Students will be shown models of solutions and will work independently and in groups to demonstrate mastery. Students will use the Mylabsplus software independently to remediate weak areas as designated by assessments. Students will show mastery by passing skill tests and/or the final exam with a 70% on better.

H. MAJOR COURSE REQUIREMENTS AND GRADING

Grades will be calculated according to the following percentages.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>15%</td>
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<tr>
<td>Exam 2</td>
<td>15%</td>
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<tr>
<td>Exam 3</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>15%</td>
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</tbody>
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A = 90% – 100%
B = 80% - 89%
C = 70% - 79%
D = 60% - 69%
F = Below 60%
## H. COURSE CONTENT/SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>SECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 27</td>
<td>Introduction to class, Section 1.1</td>
</tr>
<tr>
<td>August 29</td>
<td>Section 1.2,1.3</td>
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<tr>
<td>September 3</td>
<td>Section 1.3,1.4</td>
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<tr>
<td>September 5</td>
<td>Section 2.1,2.2</td>
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<tr>
<td>September 10</td>
<td>Section 2.2,2.3</td>
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<tr>
<td>September 12</td>
<td>Section 2.4,2.5</td>
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<tr>
<td>September 17</td>
<td>Section 2.5, Review 1</td>
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<tr>
<td>September 19</td>
<td>EXAM 1</td>
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<tr>
<td>September 24</td>
<td>Section 3.1, 3.2</td>
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<tr>
<td>September 26</td>
<td>Section 3.2, 3.3</td>
</tr>
<tr>
<td>October 1</td>
<td>Section 3.4,4.1</td>
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<tr>
<td>October 3</td>
<td>Section 4.2,4.3</td>
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<tr>
<td>October 8</td>
<td>Section 4.4, 5.1</td>
</tr>
<tr>
<td>October 10</td>
<td>Section 5.1, Review 2</td>
</tr>
<tr>
<td>October 15</td>
<td>Exam 2</td>
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<tr>
<td>October 17</td>
<td>Section 5.2, 5.3</td>
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<tr>
<td>October 22</td>
<td>Section 5.3,5.4</td>
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<tr>
<td>October 24</td>
<td>Section 5.5,6.1</td>
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<tr>
<td>October 29</td>
<td>Section 6.1, Review 3</td>
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<tr>
<td>October 31</td>
<td>Exam 3</td>
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<tr>
<td>November 5</td>
<td>Section 6.2, 6.3</td>
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<td>November 7</td>
<td>Section 6.3,6.4</td>
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<tr>
<td>November 12</td>
<td>Section 7.1,7.2</td>
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<td>November 14</td>
<td>Section 7.2,7.3</td>
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<tr>
<td>November 19</td>
<td>Section 7.4, review 4</td>
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<tr>
<td>November 21</td>
<td>Exam 4</td>
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<tr>
<td>November 26</td>
<td>Section 8.1</td>
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<td>December 2</td>
<td>Review final</td>
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<tr>
<td>December 4</td>
<td>Review final</td>
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<tr>
<td>December 6</td>
<td>Final Exam from 2:00 P.M. to 4:30 P.M.</td>
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Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.

I. COURSE POLICIES

Attendance/Tardiness
1. I expect each student to attend all classes. Attendance is mandatory by Texas A&M University. Please save absences for emergencies.
2. If you are more than 15 minutes tardy you are considered absent.

Late Work and Make-up Exams
NO MAKEUPS WILL BE GIVEN FOR HOMEWORK OR QUIZZES.

No Make-up for final test

Extra Credit
NONE

Cell Phone Use
Cell phone must be turned off

Laptop Use
laptops, or any form of a new technology device is NOT allowed in the classroom during lecture and exam.

Missed Exam:
No make-ups will be given without written evidence of an official University excused absence. For an absence to be considered excused, the student must notify his or her instructor in writing (acknowledged e-mail message is acceptable) prior to the date of absence if such notification is feasible. In cases where advance notification is not feasible (e.g. accident or emergency) the student must provide notification by the end of the second working day after the absence. In the case of illness or injury, students are required to obtain a confirmation note from a health care professional affirming date and time of a medical office visit regarding the illness or injury.

J. COLLEGE AND UNIVERSITY POLICIES

* Academic Integrity (University)

University students are expected to conduct themselves in accordance with the highest
standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a failing grade.

* Classroom/Professional Behavior

Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

* Statement of Civility

Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

* Deadline for Dropping a Course with a Grade of W (University)

I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. Please consult with your academic advisor, the Financial Aid Office, and me, before you decide to drop this course. Should dropping the course be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Please consult the Academic Calendar (http://www.tamucc.edu/academics/calendar/) for the last day to drop a course.

As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in
the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final
grade given in the course. The burden of proof is upon the student to demonstrate the
appropriateness of the appeal. A student with a complaint about a grade is encouraged to first
discuss the matter with the instructor. For complete details, including the responsibilities of the
parties involved in the process and the number of days allowed for completing the steps in the
process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These
documents are accessible through the University Rules website at
http://www.tamucc.edu/provost/university_rules/index.html, and the College of Science and
Engineering Grade Appeals webpage at http://sci.tamucc.edu/students/GradeAppeal.html. For
assistance and/or guidance in the grade appeal process, students may contact the chair or director
of the appropriate department or school, the Office of the College of Science and Engineering
Dean, or the Office of the Provost.

* Disability Services

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides
comprehensive civil rights protection for persons with disabilities. Among other things, this
legislation requires that all students with disabilities be guaranteed a learning environment that
provides for reasonable accommodation of their disabilities. If you believe you have a disability
requiring an accommodation, please call (361) 825-5816 or visit Disability Services in Corpus
Christi Hall 116.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the
classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

http://disabilityservices.tamucc.edu/

* Statement of Academic Continuity

In the event of an unforeseen adverse event, such as a major hurricane and classes could not be
held on the campus of Texas A&M University–Corpus Christi; this course would continue
through the use of Blackboard and/or email. In addition, the syllabus and class activities may be
modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites,
and Blackboard) will be operational within two days of the closing of the physical campus.
However, students need to make certain that the course instructor has a primary and a secondary
means of contacting each student.

L. OTHER INFORMATION
* Academic Advising

The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

GENERAL DISCLAIMER

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.