# MATH 1316 16-Week Syllabus

Cedar Valley College

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Instructor Information
Instructor Information will be available on the first day of class.
Name: Mohamed Aziz
DCCCD Email: mfa3468@dcccd.edu
Office Phone: 972-860-8256
Office Location: B212
Office Hours: TBA
Division Office and Phone: STEM Division, M217, 972-860-5211

Course Information
Course Title: Trigonometry
Course Number: MATH 1316
Section Number: 33002
Semester/Year: Spring 2020
Credit Hours: 3
Class Meeting Time/Location: TBA
Certification Date: February 3, 2020
Last Day to Withdraw: April 16, 2020

Course Prerequisites
MATH 1314 or equivalent

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.

Required Course Materials
No required course materials.
Note: A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Technology Requirements
No technology requirements.

Optional Course Materials

Calculator
Graphing calculators (TI-83/84) are recommended in MATH 13 16, but not required.

Textbook
Optional Textbook
Author: Ratt & McWaters Addison-Wesley
Title: Trigonometry
Edition: 5th Ed.
Publication Year: 2015
Publisher: Pearson
ISBN: 9780321567987

Course Outline
The course consists of:

Objective 1 – Trigonometric Functions
Objective 2 – Trigonometric Graphs
Objective 3 – Basic Identities
Objective 4 – More Identities and Trigonometric Equations
Objective 5 – Triangles and Vectors
Objective 6 – Polar Coordinates and Complex Numbers

Graded Work
The tables below provide a summary of the graded work in this course and an explanation of how your final course grade will be calculated. The student enrolled in the course must be the person completing course work.
## Summary of Graded Work

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Percentage of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes and working at the board are required</td>
<td>30%</td>
</tr>
<tr>
<td>5 Exams (drop the lowest score, show your work in details)</td>
<td>40%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
</tbody>
</table>

**TOTAL: 100%**

## Final Grade

<table>
<thead>
<tr>
<th>Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>80-89.9%</td>
<td>B</td>
</tr>
<tr>
<td>70-79.9%</td>
<td>C</td>
</tr>
<tr>
<td>60-69.9%</td>
<td>D</td>
</tr>
<tr>
<td>0-59.9%</td>
<td>F</td>
</tr>
</tbody>
</table>

Students who have yet to complete the course and fail to participate after the drop date will receive an F in the course.

## Description of Graded Work

Assessment of your performance will be based upon quizzes, working at the board, five exams (with the lowest scored being dropped, show your work in details), and a Final Exam.

## Certification Policy

Students must attend and participate in their on-campus or online course(s) in order to receive federal financial aid. Instructors are required by law to validate attendance in order for students to receive financial aid.

Failure to show proof of attendance in the course prior to the Certification Date can affect Financial Aid.
Withdrawal Policy

Please consult your instructor before withdrawing from this course, visit the Dropping or Withdrawing From Classes webpage.

Instructor Policies

If a student experiences a situation during the course which prevents the student from working or negatively affects the student's performance, it is the responsibility of the student to contact the instructor immediately for guidance. Notifying the instructor of such a situation at the end of the semester is not sufficient and will not result in an extension.

Institutional Policies

Institutional Policies relating to this course can be accessed using the link below. These policies include information about tutoring, Disabilities Services, class drop and repeat options, Title IX, and more.

Cedar Valley Institutional Policies

Student Learning Outcomes

Texas Higher Education Coordinating Board (THECB) Student Learning Outcomes

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.

Cedar Valley Student Learning Outcomes

1. Use trigonometric functions to prove identities and solve trigonometric equations. (THECB #3&4)
2. Graph the six basic trigonometric functions and variations on them. (THECB #2)
3. Solve right triangles using the six trigonometric functions. (THECB #5)
4. Solve general triangles using the Law of Sines and the Law of Cosines. (THECB #5)
5. Find areas of triangles using their areas and sides. (THECB #6)

**Texas Core Objectives**

The College defines essential knowledge and skills that students need to develop during their college experience. These general education competencies parallel the Texas Core Objectives for Student Learning. In this course, the activities you engage in will give you the opportunity to practice two or more of the following core competencies:

1. **Critical Thinking Skills** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. **Communication Skills** - to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
3. **Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. **Teamwork** - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5. **Personal Responsibility** - to include the ability to connect choices, actions, and consequences to ethical decision-making
6. **Social Responsibility** - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

MATH 1316 develops Critical Thinking, Communication, and Empirical and Quantitative Skills by requiring students to solve and analyze applications of trig functions and their graphs.