MATH 1316 – Plane Trigonometry
2014-2015 Syllabus *
(Fall 2014 – Summer II 2015)

* This Generic Syllabus will be supplemented by your instructor’s Syllabus Addendum. Together, these documents serve as the Course Syllabus.

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.

COURSE PREREQUISITES
MATH 1314 or equivalent.

REQUIRED / RECOMMENDED MATERIALS
MyMathLab Student Access Code. The web address for MyMathLab is www.pearsonmylab.com. This code will give you access to the MyMathLab website where much of your work will be done for the course. The MyMathLab website includes an electronic copy of the text, video instruction, and many other helpful features.

A Graphing Calculator is required. A TI-83/84 is recommended.

ISBN / TEXTBOOK

* The textbook is NOT required. An eText is included in MyMathLab.

EXAMS AND ASSIGNMENTS
The majority of course requirements are completed in MyMathLab at www.pearsonmylab.com. Students must have an active e-mail account and regular access to a computer with a reliable Internet connection to submit work through MyMathLab. Students are required to bring a blue book and a scantron for the final exam.

DISCLAIMER
The instructor reserves the right to amend this syllabus as necessary.

EVALUATION PROCEDURES
Assessment of your performance will be based upon scores from homework assignments and exams. The percentages for each are as follows and may be altered slightly by the instructor.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework (MML)</td>
<td>25%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>25%</td>
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<tr>
<td>Midterm Exam</td>
<td>25%</td>
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Information regarding due dates and penalties for late work will be in the instructor’s Syllabus Addendum, which will be available the first day of class.

The student must have an active My Math Lab account at the conclusion of the course. A temporary access code can NOT be used to complete all course work. If you do not have an active MyMathLab access code at the end of the course, you will receive an F. It is the responsibility of the student to contact Pearson Technical Support at 1-800-677-6337 to resolve any issues resulting from the use of temporary access codes.

**GRADING SCALE**

Grades for the course will be assigned using the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90 – 100%</td>
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<tr>
<td>B</td>
<td>80 – 89%</td>
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<tr>
<td>C</td>
<td>70 – 79%</td>
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<tr>
<td>D</td>
<td>60 – 69%</td>
</tr>
<tr>
<td>F</td>
<td>0 – 59%</td>
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</table>

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

**COURSE OUTLINE**

- Chapter 1 - Trigonometric Functions, Sections 1.1 – 1.5
- Chapter 2 - Right Triangle Trigonometry, Sections 2.1 – 2.3
- Chapter 3 - Radian Measure and Circular Functions, Sections 3.1 – 3.4
- Chapter 4 - Graphs of the Circular Functions, Sections 4.1 – 4.3
- Chapter 5 - Trigonometric Identities, Sections 5.1 – 5.4
- Chapter 6 - Inverse Functions and Trigonometric Equations, Sections 6.1 – 6.3
- Chapter 7 - Applications of Trigonometric Functions, Sections 7.1 – 7.4
- Chapter 8 - Vectors, Sections 8.1 – 8.3
- Chapter 9 – Polar Coordinates; Complex Numbers, Sections 9.1 – 9.5

**CVC STUDENT LEARNING OUTCOMES**

1. Use trigonometric functions to prove identities and solve trigonometric equations. (THECB #s 3&4)
2. Graph the six basic trigonometric functions and their 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.

**TEXAS HIGHER EDUCATION COORDINATING BOARD (THECB) LEARNING OUTCOMES**

1. Compute the values of trigonometric functions for key angles in various quadrants. Apply the knowledge of properties of trigonometric functions and their graphs.
2. Recognize and apply polynomial, rational, radical, exponential, and logarithmic functions.
3. Solve trigonometric equations.
4. Solve right and oblique triangles.
5. Use the concepts of trigonometry to solve applications.

**TEXAS HIGHER EDUCATION COORDINATING BOARD (THECB) LEARNING OUTCOMES**

1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential, and logarithmic functions and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve, and apply systems of linear equations using matrices.
TEXAS CORE OBJECTIVES FOR STUDENT LEARNING
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 following skills are in focus.

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.

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.

ATTENDANCE POLICY
In general, regular class attendance enhances student achievement. Students are expected to regularly attend all classes in which they are enrolled. In a mathematics lecture/discussion class, regular, punctual attendance is vital to success. Students should advise instructors of illness, work, or family situations that may require absence from a class. Students are not permitted to conduct unwarranted class interruptions by exiting and reentering class without approval. If you anticipate your early departure from a class session, you should discuss the circumstances with your instructor before class begins. Continual disregard of any of these policies could result in your expulsion from the course. Your attendance in the course can affect financial aid (please see financial aid information in this document).

CELL PHONE POLICY
Cell phones should be turned off or put in “silent” mode before class begins. A ringing cell phone is a disruption to the class and may result in the offending student being dismissed from the remainder of class. Frequent cell phone disruptions, including texting, may result in disciplinary action.

Use of a cell phone during testing or other graded work conducted within the classroom or Testing Center will be considered an act of academic dishonesty.

TUTORING OPPORTUNITIES
There are several learning aids available to you. You are encouraged to utilize any and/or all of the following FREE resources:

1. Tutoring and supervised study in the Math Resource Center B229 (MRC).
2. Tutoring and supervised study in the Tutoring Center C206.
3. Tutoring from Special Services L108.

All tutoring is available on a "drop in" basis; however, if you would like to make an appointment for a specific time, please call 972-860-2974. During each visit to the Tutoring Center or Math Resource Center you will use your student ID# to sign in and out on our computer at the front desk. More information is available at: [http://www.cedarvalleycollege.edu/FutureStudents/StudentServices/TutoringServices/default.aspx](http://www.cedarvalleycollege.edu/FutureStudents/StudentServices/TutoringServices/default.aspx)
QUALITY ENHANCEMENT PLAN (QEP)
Cedar Valley College's Quality Enhancement Plan is designed to improve student learning in mathematics. Read more about our QEP at: [www.cedarvalleycollege.edu/QEP](http://www.cedarvalleycollege.edu/QEP)

CVC’s LEARNING SIGNATURE
CVC’s Learning Signature is One College Transforming Lives. Cedar Valley College establishes clear expectations for students through engagement and empowerment leading to excellence.

CVC Faculty and Staff expect students to:
- take responsibility for their own learning
- commit to achieving high academic performance
- be meaningfully engaged in the campus community

CVC Faculty and Staff expect to:
- provide students a clear pathway of instruction
- establish clear learning outcomes
- serve as role models and mentors for students

WITHDRAWAL POLICY - STOP BEFORE YOU DROP
Under a Texas law (TEC Section 51.907), if you drop too many classes without having an acceptable reason, your GPA could be affected. Be sure you understand how this law may affect you before you drop a class.

The law applies to students who enroll in a Texas public institution of higher education (including the colleges of DCCCD) for the first time in fall 2007 or later. Under this law, you may not drop more than six classes without an acceptable reason during your entire undergraduate career without penalty. For more information, please see our catalog or read Facts About Dropping Classes.

If you drop or withdraw before the official drop/withdrawal deadline, you will receive a grade of W (Withdraw) in each class dropped until the seventh unacceptable drop. You will earn a grade of WF for the seventh unacceptable drop, and each unacceptable drop after that. A grade of WF will be calculated in your GPA as an F.

The deadline for receiving a W is indicated on the academic calendar and the current class schedule.

For more information, you may access: [http://www.dcccd.edu/Why/Reg/Registration/Pages/DropWithdraw.aspx](http://www.dcccd.edu/Why/Reg/Registration/Pages/DropWithdraw.aspx)

The Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. This class may not be repeated for the third or subsequent time without paying the additional tuition. Third attempts include courses taken at any of the Dallas County Community Colleges since the fall 2002 semester. More information is available at: [http://www.dcccd.edu/PC/Cost/3rdCrseAttmpt/Pages/default.aspx](http://www.dcccd.edu/PC/Cost/3rdCrseAttmpt/Pages/default.aspx)

INSTITUTIONAL POLICIES
ACADEMIC ADVISING
Academic Advising is a collaborative educational process whereby students and their advisors are partners in meeting the students' academic, personal, and career goals. This partnership is a process that is built over the
student’s entire educational career at Cedar Valley College.

Educational planning is available to all students. First time in college students must meet with academic advisors prior to enrolling in classes; however, continuing students may choose to see faculty advisors, faculty counselors, and/or program coordinators after classes begin. All parties have clear responsibilities for ensuring a successful partnership. For more information, you may access:

https://www.cedarvalleycollege.edu/FutureStudents/StudentServices/AcademicAdvising/Pictures/AdvisingSyllabus.pdf

ACADEMIC HONESTY
Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. 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. See Also Student Code of Conduct. https://www1.dcccd.edu/catalog/ss/code.cfm?loc=CVC

ADA STATEMENT
If you are a student with a disability and/or special needs who requires accommodations, please contact the college Disability Services Office at 972-860-8119.

EMERGENCY ALERT/CLOSING
Sign up for DCCCD Emergency Alerts to receive a text-message, e-mail and/or phone call when there is an unscheduled evacuation or closure of a DCCCD campus or office because of weather closures, utility outages, police or other emergencies. Subscribing is free, but standard text message charges from your cell phone provider will apply. Please refer to: http://www.dcccd.edu/SS/OnlineSvs/EmergAlerts/Pages/default.aspx

In the event of a campus closing, students will receive an e-mail with instructions/assignment.

FINANCIAL AID
Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy. Financial Aid students MUST attend class by the Certification Date, which is indicated as the “12th Class Day” on the academic calendar.

HEALTH CENTER SERVICES
Basic first aid for minor cuts, scrapes, insect stings, and heat, etc.

- Over-the-counter medications for headaches, fever, seasonal allergies, and colds
- Over-the-counter medications for mild allergic reactions
- Emergency sanitary pads
- Blood Pressure check
- Coordination with outside health agencies such as Carter Blood Care; Dallas County Health Dept. (HIV/STD testing--free, twice a semester); UT Southwestern mobile mammography; Immunizations once a month for children <19 y.o. from the DCDHHS; Agape Massage; and Employee Wellness Screening
- Rest area for stress relief, migraine headaches, post seizure activity
- AED (Automatic External Defibrillator) for CPR
- Confidential "talks"
• Assists with health related club activities when asked and time permits

**RELIGIOUS HOLIDAYS**
Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to take a make-up examination or complete an assignment within a reasonable time after the absence.