Table of Contents
Instructor Information .................................................................................................................................... 2
Course Information ........................................................................................................................................ 2
District Course description ............................................................................................................................. 2
ACGM description ......................................................................................................................................... 2
Course prerequisites ....................................................................................................................................... 3
DCCCD Distance Education Courses: ........................................................................................................... 3
Required Textbook and Materials .................................................................................................................. 3
Hardware/Software Requirements: .............................................................................................................. 4
Technical Support .......................................................................................................................................... 4
Calculators...................................................................................................................................................... 4
Course Objectives .......................................................................................................................................... 4
ACGM Learning Outcomes ........................................................................................................................... 4
PROGRAM-LEVEL OUTCOMES ................................................................................................................... 4
Course-Level Learning Outcomes .................................................................................................................. 5
Course Outline ............................................................................................................................................... 5
Means of Assessment of Course Learning Outcomes.................................................................................... 5
Evaluation Procedures.................................................................................................................................. 5
Grading Scale .................................................................................................................................................. 5
Homework ...................................................................................................................................................... 5
Testing ............................................................................................................................................................ 6
Proctored Tests: ............................................................................................................................................. 6
Taking Proctored Exams in the North Lake College Testing Center............................................................. 6
Testing Center Hours ...................................................................................................................................... 6
Testing Center Policies (additional).................................................................................................................. 6
This course syllabus is intended as a set of guidelines for Plane Trigonometry. Both North Lake College and your instructor reserve the right to make modifications in content, schedule, and requirements as necessary to promote the best education possible within prevailing conditions affecting this course.

Instructor Information
Instructor’s Name: Yan Avram
Email Address: yavram@dcccd.edu
Office Phone Number: 972-860-3926
Office Location: Central Campus A-371
Office Hours: Please see e-campus INSTRUCTOR INFO for details.

Course Information
Course title: Plane Trigonometry
Course number: MATH 1316
Section number: 77202
Credit hours: three (3)
Class meeting time: MW, 9:30AM to 10:50AM.

District Course description:
This course is a study of angular measures, functions of angles, identities, solutions of triangles, equations, inverse trigonometric functions, and complex numbers. Chapters will be covered as indicated on the course calendar.

ACGM 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 MATH 1414 or approval of instructor.

DCCCD Distance Education Courses:
This course is presented through a web-based interactive, multimedia format using MyLabsPlus and can be completed on either a PC or MAC computer. Students use Internet access to participate in classroom studies and to ask questions. There is not a particular time of the day when the class meets. One of the advantages of taking a course in this medium is the flexibility of when students choose to complete the work. For those students who live close to North Lake College, the Math Learning Center is available six days a week for extra one-on-one help with homework.

Required Textbook and Materials

After you have registered for classes, you can buy your books online through eConnect (login required) by clicking on the "Buy My Books" link after logging in, or click here.

Pick one of the following options.

Option 1:
Algebra & Trigonometry (MyLabsPlus Access Code Only)
Author: Trigsted
Edition: 3rd
ISBN: 9781323917565
Copyright Year: 2019
Publisher: Pearson Learning Solutions

Option 2:
Algebra & Trigonometry: (MyLabsPlus Access Code and Notebook package)
Author: Trigsted
Edition: N/A
ISBN: 9780135402207
Copyright Year: 2019
Publisher: Pearson Learning Solutions

Trigsted Algebra and Trigonometry Package for North Lake College
Includes Access to MyLabsPlus, Guided Notebook Pages, and Algebra and Trigonometry Text, 3rd edition, by Kirk Trigsted
Special Notes:

- Guided Notes are also available in electronic form and posted in the eCampus classroom.
- Chapters 6 – 10 of the Trigsted Precalculus text cover the required topics in Trigonometry.
- This text will also be used for the subsequent course, Math 2412, during the Spring 2019 semester.

NOTE: Choose wisely – Do some research & do the math!
- The MyLabsPlus (MLP) software component HAS an eText included. If you are okay with all your material only being accessible online, you can choose to purchase only the access code.
- But, keep in mind often students prefer to have a paper copy of the textbook for use in the classroom and while working on homework & for WHEN the internet/MLP goes down.
• The college bookstore has available a 3-hole punched copy of the text with MyMathLab-Plus included. This latter package may be cheaper than purchasing the text and MyMathLab-Plus separately.
• Most hard back copies of the text found online or for rent do not have MyMathLab-Plus as part of the package. You would have to purchase the MLP separately – it cannot be used.

Hardware/Software Requirements:
System requirements for MyMathLab/MyLabsPlus can be confirmed by going to the following website:
System Requirements for MyMathLab/MyLabsPlus
http://www.coursecompass.com/html/system_requirements.html
A link to this site is available on eCampus.

Technical Support
New Website for Technical Support for MyLabsPlus support website:
https://support.pearson.com/getsupport/s/
Technical support for eCampus: 972-669-6402
Technical support for MyLabsPlus:  1-888-883-1299

Calculators
You will be allowed to use calculators on all tests. Graphing calculators (such as the TI-83 or TI-84 Plus) are recommended. Calculators such as the TI 89 & TI 92, which perform algebraic operations, are not allowed.

Course Objectives
The objective of the mathematics component of the core curriculum is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.

ACGM Learning Outcomes
Upon 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.

PROGRAM-LEVEL OUTCOMES
As developed by the Texas Higher Education Coordinating Board

Program-Level Outcome 1: Communication Skills – to include effective development, interpretation and expression of ideas through written, oral and visual communication.
1. Written: Process and produce effective written communication adapted to audience, purpose, and time constraints.
2. Visual: Effectively interpret visual images or produce effective images.
Program-Level Outcome 2: Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.

Program-Level Outcome 3: Empirical and Quantitative Skills – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Course-Level Learning Outcomes

Upon successful completion of this course, students will:
1. Demonstrate and apply knowledge of properties of functions.
2. Recognize and apply algebraic and transcendental functions and solve related equations.
3. Apply graphing techniques to algebraic and transcendental functions.
4. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
5. Prove trigonometric identities.
6. Solve right and oblique triangles

Course Outline

Chapter 6: Introduction to Trigonometric Functions ~ Review
Chapter 7: Inverse Trigonometric Functions
Chapter 8: Trigonometric Identities
Chapter 9: Applications of Trigonometry
Chapter 10: Polar Coordinates and Polar Equations

Means of Assessment of Course Learning Outcomes

Course Learning Outcomes will be assessed using a variety of means.
1. A written exam or online exam will be given to assess each Learning Outcome.
2. Homework will be assigned and assessed either using the software component or by the instructor.
3. Students will complete learning activities that will address specific course learning outcomes.

Evaluation Procedures

The course learning outcomes will be assessed through Group Work (projects), Homework, Daily work (includes mastery tests, SLO activities, quizzes and other activities), Quizzes and Exams. The final grade will be based on the following.

Grading Scale

Your course grade will be determined by the final grade average based on the following:
A = 90 – 100; B = 80 – 89; C = 70 – 79; D = 60 – 69; F = 0 – 59.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>MyLabsPlus Assignments (HW, quizzes, mastery test)</td>
<td>20%</td>
</tr>
<tr>
<td>4 Unit tests</td>
<td>60%, each at 15%.</td>
</tr>
<tr>
<td>Final exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

Homework

You have to put time in outside of class--homework. Your degree of success in the course will depend on how much effort you are able to give to work outside of class. That will depend on the time you are willing to give and the other activities that require your time--work, other courses, family, etc. Read the section to be covered and try some of the problems BEFORE you come to class.
Testing

Mastery Tests:

• You will be required to take a mastery test before each unit test.
• The mastery tests will serve as your test review for each unit test.
• You will have limited attempts and a deadline to take each mastery test.
• Your deadline will be announced on e-campus.
• The highest grade on each mastery test will be used to determine your mastery test average.
• The mastery test average and SLO quizzes average will be included in your Daily work grade.

Proctored Tests:

Taking Proctored Exams in the North Lake College Testing Center

You will take chapter tests in the Testing Center, Room A425, on or before the regularly scheduled test dates.

• To test you will need to have the following information:
  1. Instructor’s name
  2. Subject, course number, and section number (ex: Math 1314-71023)
  3. Exam number (1st, 2nd, 3rd, etc.)
  4. Exam deadline (Get this information from your instructor. The testing staff cannot look up this information on computers).
• You should also bring the following supplies:
  1. Pencil
  3. Government or school issued photo identification is required & enforced.
  4. Only battery operated 4 function, non-programmable scientific or TI83/TI84 calculators are allowed (if permitted by instructor). The memory on your calculator will be cleared.

Testing Center Hours

• The Testing Center normal hours are Mon – Thurs: 8:30 a.m. to 8 p.m. and Fri and Sat: 8:30 a.m. to 3:30 p.m. Important: hours and days may vary due to holidays or other events, please verify the Testing Center will be open before you arrive.
• Questions? Please visit the Testing Center or call 972-273-3160.

Testing Center Policies (additional)

• No personal items in the Testing Center. This includes bags, cell phones, and pagers.
• Please show courteous and cooperative behavior while using the services provided by the Testing Center.
• NO children in the Testing Center. No exceptions. The police department will be notified of any unattended children.
• DO NOT take any testing materials with you when you leave the Testing Center. This includes the test, answers, charts, scratch paper. These items will be attached to your test. (To do so constitutes Academic Dishonesty.)
INSTITUTIONAL POLICIES

Institutional Policies relating to this course can be accessed from the following link, or type in www.northlakecollege.edu/syllabipolicies

Drop Policy
If you are unable to complete this course, you must officially withdraw by 10/03/2019. Withdrawing is a formal procedure which you must initiate; your instructor cannot do it for you. All Dallas County Community Colleges charge a higher tuition rate to students registering the third time for a course. This rule applies to the majority of credit and Continuing Education / Workforce Training courses. Developmental Studies and some other courses are not charged a higher tuition rate. Third attempts include courses taken at any DCCCD college since the fall 2002 semester. For further information, go online to: Course Drop Policy for third attempt or more for a course.

STOP BEFORE YOU DROP - Do NOT drop until you speak with your instructor.
For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: Info on Limitations for Dropping Courses at DCCCD

End of Course Grade Options
1. **Student receives an A, B, or C average.** Receiving an A, B or C grade is considered successful completion of the College Algebra course.
2. **Student receives a W.**
   Students who decide that they will be unable to complete the course and withdraw on or before the drop date will receive a W. Students repeating the course in a subsequent semester will have to pay tuition again and may have to purchase a new set of materials to obtain the required software license (MyLabsPlus code is good for one year if used with the same text).
3. **Student receives a D or an F.**
   Students who do not drop the course must be given a completion grade. Those that do not qualify for one of the options listed above will be given the Course Grade they have earned as determined by the course average process listed in the previous section.

Math Center – Free and No Appointment Needed
The Math Center (MC), in the library, provides tutoring and resources free to students enrolled in mathematics and developmental mathematics classes at North Lake College. The MC is a great place to bring a study group, study quietly, get help with math classes, and use the center’s various resources. Services offered:
Tutorial services in all math courses taught at North Lake College
Computers for use by students enrolled in math courses that have an Internet component such as homework systems (i.e., MyLabsPlus, ConnectMath)
Graphing calculators, textbooks, and headphones for use in the center
Graph stamps so students can make their own graph paper
A quiet area to study
Opportunity for students to make up class absences
Whiteboards and table space for study groups
Content workshops covering how to use graphing calculators, course topics, review sessions, and study skills.

Hours of Operation (Fall/Spring)
Monday -- Thursday: 8 a.m. -- 8 p.m.
Friday & Saturday: 10 a.m. -- 2 p.m. CLOSED on Sunday
Center Phone: 972-273-3381
Coordinator: Camrunn Beck

Service Learning and Mu Alpha Theta
Service Learning (SL) is a nationally recognized program in which students learn and develop through thoughtfully organized service experiences that meet real community needs. Any student that chooses to participate in Service Learning and completes their assignment will be given 10 extra credit point on the lowest Written Unit Tests in this course. Please see the eCampus for more details about how to participate and the requirements for completion.

Mu Alpha Theta Math Honor Society
Mu Alpha Theta is the United States mathematics honor society for high school and two-year college students.

• If a student was not a Mu Alpha Theta member in high school, s/he must have taken at least one mathematics course at or above the College Algebra/Pre-calculus level to be eligible for membership.
• On the 4-point grading scale, members must have at least a 3.0 math grade point average in courses at or above the College Algebra/Pre-calculus level.
• If a two-year college student was a member of Mu Alpha Theta in high school, his/her high school membership transfers and s/he may become a member at the two-year college without paying the membership fee again.

Appendix MATH 1316 Important Course Dates

<table>
<thead>
<tr>
<th>Important Dates</th>
<th>Important Dates for the semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/26/19 (Monday)</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>08/31/2019</td>
<td>Census date (Certification Date)</td>
</tr>
<tr>
<td>09/02/19 (Monday)</td>
<td>Labor day. College closes.</td>
</tr>
<tr>
<td>10/03/19</td>
<td>Last Day to Withdraw with grade of W</td>
</tr>
</tbody>
</table>
| 10/16/19 (Wednesday)  | Last day to take Final Exam in class. }
<table>
<thead>
<tr>
<th>Weekly Calendar</th>
<th>Chapter Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Week 1</strong></td>
<td>Chapter 6</td>
</tr>
<tr>
<td></td>
<td>6.1 – An Introduction to Angles: Degree and Radian Measure</td>
</tr>
<tr>
<td></td>
<td>6.2 – Applications of Radian Measure: Arc Length and Area</td>
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<tr>
<td></td>
<td>6.3 - Triangles</td>
</tr>
<tr>
<td></td>
<td>6.4 – Right Triangle Trigonometry</td>
</tr>
<tr>
<td><strong>Week 2</strong></td>
<td>Chapter 6 test</td>
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<tr>
<td></td>
<td>6.5 – Trigonometric Functions of General Angles</td>
</tr>
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<td></td>
<td>6.6 - The Unit Circle</td>
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<tr>
<td><strong>Week 3</strong></td>
<td>Chapter 6 test</td>
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<tr>
<td></td>
<td>7.1 – The Graphs of Sine and Cosine</td>
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<tr>
<td><strong>Week 4</strong></td>
<td>Chapter 7 test</td>
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<tr>
<td></td>
<td>Chapter 8</td>
</tr>
<tr>
<td></td>
<td>8.1- Trigonometric Identities</td>
</tr>
<tr>
<td></td>
<td>8.2 – The Sum and Difference Formulas</td>
</tr>
<tr>
<td></td>
<td>8.3 – Double-Angle and Half-Angle Formulas</td>
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<tr>
<td><strong>Week 5</strong></td>
<td>Chapter 8 test</td>
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<tr>
<td></td>
<td>Chapter 9</td>
</tr>
<tr>
<td></td>
<td>9.1 – Right Triangle Applications</td>
</tr>
<tr>
<td><strong>Week 6</strong></td>
<td>Chapter 9 test</td>
</tr>
<tr>
<td></td>
<td>9.2 - The Law of Sines</td>
</tr>
<tr>
<td></td>
<td>9.3 - The Law of Cosines Section</td>
</tr>
<tr>
<td></td>
<td>9.4 – Area of Triangles</td>
</tr>
<tr>
<td><strong>Week 7</strong></td>
<td>Chapter 10</td>
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<tr>
<td></td>
<td>10.1 – Polar Coordinates and Polar Equations</td>
</tr>
<tr>
<td></td>
<td>10.2 – Graphing Polar Equations</td>
</tr>
<tr>
<td></td>
<td>10.3 - Complex Numbers in Polar Form; DeMoivre’s Theorem</td>
</tr>
<tr>
<td></td>
<td>10.4 – Vectors</td>
</tr>
<tr>
<td><strong>Week 8</strong></td>
<td>Final Exam</td>
</tr>
<tr>
<td></td>
<td>10.5 – The Dot Product.</td>
</tr>
</tbody>
</table>