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: Eric Pleasant
Email Address: EricPleasant@dcccd.edu
Office Phone Number: 972-273-3016
Office Location: A365
Office Hours: M/W 3:20-4:00, TR 11:00-1:00, Friday by Appointment

Course Information
Course title: Plane Trigonometry
Course number: MATH 1316
Section number: 77432
Credit hours: Three (3)
Class meeting time: INET

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 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 MATH 1414 or approval of instructor.

Required Textbook and Materials
Trigsted Algebra and Trigonometry 3rd edition --- Package for North Lake College
Includes Access to MyLabsPlus, book and guided notes. The stand alone access to MyLabsPlus is also allowed. It allows access to an eText as well as the homework.
Special Notes:

- This text will also be used for the subsequent course, Math 2412.
- Student ID number and email address listed in eConnect will be uploaded into the MyLabsPlus software to provide the student access to the course materials. You can modify your email address and password once you have logged into the software the first time. If you have questions or concerns contact the math division office at 7mathofc@dcccd.edu.

Hardware/Software Requirements:
System requirements for MyMathLab/MyLabsPlus can be confirmed by going to: http://www.coursecompass.com/html/system_requirements.html

A link to this site is also available on eCampus.

Respondus Lockdown Browser
Because this is an online course, I offer the chapter exams online through eCampus. You will take them online at home (or wherever you have computer access). You will need to download FREE software for using the Respondus Lockdown Browser and have a webcam. Instructions for Respondus are located in eCampus.

Technical Support
MyLabsPlus support website: https://support.pearson.com/getsupport/s/
eCampus support website: http://ecampus.dcccd.edu/
A link to these sites is available on eCampus.
Technical support number for eCampus: 1-866-374-7169
Technical support number for MyLabsPlus: 1-888-883-1299

Calculators: A calculator is required for this class.
- Graphing calculators (such as the TI-83 or TI-84 Plus) are the recommended calculator. Calculators such as the TI 89 & TI 92, which perform algebraic operations, are not allowed. This includes most Casio models.
- You WILL need at least a scientific calculator to use in class – a graphing calculator will more beneficial and used at many universities for upper level math courses.
- You will be allowed to use calculators on all tests.
- If need be, when taking tests in NLC testing center, you may check out a TI-84 calculator.

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 Outline
Chapter 6: Introduction to Trigonometric Functions
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 by a variety of means.
1. Several exams will be given to assess all Learning Outcomes.
2. Quizzes will be assigned within MyLabsPlus.
3. Homework will be assigned and assessed either using the software component or by the instructor.
4. Observation of students as they interact in groups and discussions will be used to assess all outcomes.
5. Students will complete projects and learning activities that will address specific course learning outcomes.

Evaluation Procedures of Course Learning Outcomes
The learning outcomes will be assessed through Individual and Group Work (activities/projects), Homework, and Exams. The final grade will be based on the following:

- Homework/Quizzes 25%
- Tests Average 50%
- Final Exam 25%

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

Grade Alternatives
Incomplete: Only given in EXTREME CIRCUMSTANCES and usually for medical reasons.

Discipline/ Course/ Department/Policies

Homework for Each Section:
• This homework has been created to help you better learn the objectives covered in the course. If completed consistently and properly, it will better prepare you for the written exam.

**This homework should be completed immediately after a section has been covered.**

• In addition to homework, MyMathLab-Plus has many other resources to help you be successful in this course (videos, study plan, practice tests, tutorials, and many other tools).

Exams

• Exams will be given online so you MUST have access to a computer, internet, and a webcam.

• **Exam dates will be announced in eCampus**

• The final exam will be comprehensive and **WILL BE PROCTORED IN THE TESTING CENTER**

• Calculators are allowed on all exams.
  TI-83/84 or similar calculators and all scientific calculators are permitted on all exams.
  Calculators with computer algebra systems (CAS) such as the TI-93 or TI N-spire are not permitted on any exam.

No Retakes / No Makeups

• If you unable to take the exam by the given deadline, you will be given a zero.

There will be four written tests.

**Taking Tests in the Testing Center** (L 240)

• Important: Government- or school-issued photo identification is required & enforced.

• You may not bring personal items into the Test Center. This includes bags, cell phones and pagers. Coin-reimbursable (quarter) lockers are available for student use. **Please do not share lockers.**

• Please show courteous and cooperative behavior while using the services provided by the Testing Center.

• **Do not bring children to the testing center.** You must make arrangements for the care of your children prior to your exam date. 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.

• **Academic Dishonesty**
  The Dallas County Community District has established procedures and guidelines to protect the security and integrity of all exams. All incidents of academic dishonesty are documented and reported to the instructor, the Director of Testing and the Dean of Student Enrollment.

• **Hours of Operation:**
  Monday – Thursday: 8:30 a.m. – 8:00 p.m.  Friday and Saturday: 8:30 a.m. – 3:30 p.m.
  No tests will be issued after 7:00 p.m. Other cutoff times may be in effect for specific exams by the instructor's direction. All exams collected at 8:00 p.m.

STEM Center

The STEM Center, located in L137 and L139 provides assistance and resources free to students enrolled in mathematics and developmental mathematics classes at North Lake College.

This 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 courses that have an Internet component such as homework systems (i.e., MyLabsPlus, ConnectMath)
• Graphing calculators for use in the center
• Textbooks for use in the center
• A quiet area to study (Just ask one of the tutors)
• Opportunity for students to make up class absences
• Whiteboards space for study groups
• Content workshops covering how to use graphing calculators, course topics, review sessions, and study skills

Contact the STEM Center Manager (Math)
Hours of Operation
Monday – Thursday: 9 a.m. – 6 p.m.
Friday & Saturday: 9 a.m. – 2 p.m.
Manager: Camrunn Beck, Room L135, camrunn.beck@dcccd.edu

Financial Aid Certification of Attendance
To be certified as attending, you MUST log into MyLabsPlus and complete the first assignment prior to the certification date.

Institutional Policies
Institutional Policies relating to this course can be accessed from the following link:
www.northlakecollege.edu/syllabipolicies

PENALTY for Academic Dishonesty
Academic dishonesty may result in the following sanctions, including, but not limited to:
1. A grade of zero or a lowered grade on the assignment or course.
2. A reprimand.
3. Suspension from the college.

Drop Policy
If you are unable to complete this course, you must officially withdraw by Thursday, October 3rd, 2019. Withdrawing is a formal procedure which you must initiate; your instructor cannot do it for you. See link within Institutional Policies noted above.

STOP BEFORE YOU DROP - Do NOT drop until you speak with your instructor.

Counseling Services (A311)
Counseling services for personal issues are provided to all students currently enrolled at North Lake College. These services are provided by licensed professionals who are bound by confidentiality (within ethical parameters) at no charge. With the assistance of a counselor, students are able to identify, understand, resolve issues and develop appropriate skills. To make an appointment call 972-273-3333 or visit A311.
# Weekly Course Calendar
## Math 1316 Online Course – Fall 2019

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<th>Week Number</th>
<th>Sections Covered and Activities Due</th>
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<tr>
<td><strong>Week 1</strong></td>
<td>Orientation</td>
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<tr>
<td><strong>8/26 – 9/01</strong></td>
<td>6-1 Angles: Degree and Radian Measure</td>
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<td>6-2 Applications of Radian Measure</td>
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<td>6-3 Triangles</td>
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<td><strong>Week 2</strong></td>
<td>6-4 Right Triangle Trigonometry</td>
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<td><strong>9/02 – 9/08</strong></td>
<td>6-5 Trigonometric Functions of General Angles</td>
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<td>6-6 Unit Circle</td>
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<td>Chapter 6 Mastery Test and Review for Exam 1</td>
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<td><strong>Exam 1</strong></td>
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<td><strong>Week 3</strong></td>
<td>7-1 Graphs of Sine and Cosine</td>
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<td><strong>9/09 – 9/15</strong></td>
<td>7-2 More Graphs of Sine and Cosine</td>
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<td>7-3 Graphs of Tangent, Cotangent, Cosecant, and Secant</td>
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<td><strong>Week 4</strong></td>
<td>7-4 Inverse Trigonometric Functions I</td>
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<td><strong>9/16 – 9/22</strong></td>
<td>7-5 Inverse Trigonometric Functions II</td>
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<td><strong>Exam 2</strong></td>
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<td>8-1 Trigonometric Identities</td>
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<td>8-2 Sum and Difference Formulas</td>
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<td><strong>Week 5</strong></td>
<td>8-3 Double-Angle and Half-Angle Formulas</td>
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<td><strong>9/23 – 9/29</strong></td>
<td>8-4 Product-to-Sum and Sum-to-Product Formulas</td>
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<td>8-5 Trigonometric Equations</td>
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<td>9-1 Right Angle Applications</td>
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<td><strong>Week 6</strong></td>
<td>9-2 Law of Sines</td>
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<td><strong>9/30 – 10/06</strong></td>
<td>9-3 Law of Cosines</td>
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<td>Chapters 8 and 9 Mastery Test</td>
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<td><strong>Exam 3</strong></td>
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<td>10-1 Polar Coordinates and Polar Equations</td>
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<td>10-2 Graphing Polar Equations</td>
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<td><strong>Week 7</strong></td>
<td>10-3 Complex Numbers in Polar Form; De Moivre’s Theorem</td>
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<td><strong>10/07 – 10/13</strong></td>
<td>10-4 Vectors</td>
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<td>10-5 Dot Product</td>
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<td>Chapter 10 Mastery Test and Review for Exam 3</td>
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<td><strong>Week 8</strong></td>
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