MATH 1316: Plane Trigonometry Syllabus

General Information
College Name: North Lake College
Division (Department): Mathematics and Natural Sciences
Semester and Term: Fall 2019
Important Semester Dates:

<table>
<thead>
<tr>
<th>Class Session</th>
<th>Start Date</th>
<th>Attendance Certification</th>
<th>Last Day to Withdraw</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-Week</td>
<td>08-26-19</td>
<td>09-09-19</td>
<td>11-14-19</td>
<td>12-12-19</td>
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<tr>
<td>1st 8-Week</td>
<td>08-26-19</td>
<td>08-31-19</td>
<td>10-03-19</td>
<td>10-16-19</td>
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<tr>
<td>2nd 8-Week</td>
<td>10-22-19</td>
<td>10-28-19</td>
<td>11-27-19</td>
<td>12-12-19</td>
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Instructor Information
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Course Information
Course Title: Math 1316 Plane Trigonometry
Section Number: 77211, 78211
Credit Hours: 3
Class Meeting Day and Time: TR 8AM – 9:20AM in room P315
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 College Algebra
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
Texas Core Objectives Assessed in this Course

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 visual 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

Required Course Materials

2. Microsoft Office 365 Account – Free to all NLC students
3. Scanner or Scanning App called Office Lens
4. Recommended: Graphing Calculator such as TI 84

Calculators such as the Casio Scientific, Casio graphing calculator, and the TI CAS, which perform algebraic operations, are not allowed.

Evaluation Procedures

Lesson Units (20% of Final Grade)
Lessons consist of videos, notes from the OneNote class notebook and Concept Checks. There are four units in this course.

- Videos are used to deliver the concepts by lecture.
- Concept Checks occur approximately after each section in a unit. The Concept Checks can be taken 3 times and consist of pooled questions so that every attempt has different questions.

Unit Tests (40% of Final Grade)
There are a total of four unit tests that are completed at home and are not proctored. The student gains access to the test after the Concept Check activities have been completed. The tests are timed and are required to be submitted by 5PM on the day the assignment is due. After the due date (and time) the student will lose 5 points for each day the assignment is late.

Midterm and Final Exams (40% of Final Grade)
Midterm exam (20%) covers units 1 and 2. Students will not gain access until they have completed Unit 1 and Unit 2. The questions will come from the Concept Checks and Unit Tests.
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Final exam (20%) covers units 3 and 4. The questions will come from the Concept Checks and the unit tests. Students will not gain access until they have completed Unit 3 and Unit 4.

The student may use scratch paper and a calculator on the exam. Formulas are provided on the test. This is a proctored exam delivered as an online test and must be taken using Respondus Lockdown Browser. Students have three options for taking this exam.

- **Testing Center** – the student must confirm with the instructor if the student wishes to test at a testing center. Test information about procedures will only be emailed to the testing center once the instructor is informed.
- **Pre-approved Proctor** – Students may submit a proctor nomination form at least two weeks prior to the exam. Once the proctor has been approved, test information and instructions will be emailed to the proctor.
- **No Proctor** – students can take the exam from any location without a proctor or testing center. The student will need a laptop with a webcam and microphone.

**Letter Grade Calculations**

An A is earned if the total number of points is between 900 – 1000.

A grade of B is earned if the total points are between 800 – 899.

A grade of C is earned if the total points are between 700 – 799.

A grade of D is earned if the total points are between 670 – 699.

Finally, a grade of F is earned if the total number of points are less than 660.

**Note:** grades are not rounded more than 5 points. Grade of I for an Incomplete is only given in extreme circumstances with documented proof of an inability to complete the course.

**Institutional Policies**