MATH 2412 PreCalculus Syllabus
North Lake College

Instructor Information
Name: Mrs. Marie Kohrmann
DCCCD Email: mkohrmann@dcccd.edu
Office Phone: 972-273-3510
Office Location: online
Office Hours: See eCampus
Division Office and Phone: P330, 972-273-3500

Course Information
Course Title: PreCalculus
Course Number: MATH 2412
Section Number: 70214
Semester/Year: Spring 2020
Credit Hours: 4
Class Meeting Time: Tuesday & Thursdays 11:30 a.m. – 3:20 p.m.
Location: eCampus – Blackboard Collaborate Classroom
Class structure:
- Online Lecture: 11:30 a.m. – 12:30 p.m.
- 15 minute break
- Online Lecture: 12:45 – 1:45
- 15 minute break
- Q&A 2:00 – 3:20 p.m. Students without questions can use this time to work on Action Items posted in course calendar.

Class begins: MONDAY, 3/30/20
Certification Date: APRIL 3, 2020
Last Day to Withdraw: May 4, 2020
Course Prerequisites
MATH 1316

Course Description
This course consists of the study of algebraic and trigonometric topics including polynomial, rational, exponential, logarithmic and trigonometric functions and their graphs. Conic sections, polar coordinates, and other topics of analytic geometry will be included. (4 Lec.)

Student 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.

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
Required Course Materials
Trigsted Algebra and Trigonometry 3ed Package (Recommended)
The package includes a hard copy of the book, Guided Notebook and access card to MyLabsPlus.

The MyLabsPlus Access Code for the 3rd ed. text is required. Research proves reading a hard copy of a text is beneficial for most students.
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.

Be careful: Sources found online do NOT always have the access code included. The MylabsPLUS access code MUST be specifically for this text book. Check out the deal in the NLC Bookstore – it is a good deal.

Calculators: You will be allowed to use scientific calculators on all tests. The only graphing calculators that will be allowed are the TI-83 or TI-84 and the Plus versions. TI-89, TI-92 and most Casios will not be allowed as they do many of the calculations that you will be required to know how to perform on your own.

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.

Summary of Graded Work

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework/Quizzes (MLP)</td>
<td>20%</td>
</tr>
<tr>
<td>Test 1: 1.9 + Ch. 3</td>
<td>20%</td>
</tr>
<tr>
<td>Test 2: Ch. 4</td>
<td>20%</td>
</tr>
<tr>
<td>Test 3: Ch. 5</td>
<td>20%</td>
</tr>
<tr>
<td>Test 4: Guided notes for 1.9+ Ch3+10.1+12.5+12.6</td>
<td>20%</td>
</tr>
</tbody>
</table>

TOTAL: 100%

Final Grade

<table>
<thead>
<tr>
<th>Percentages</th>
<th>Letter Grade</th>
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<tbody>
<tr>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
</table>
The instructor reserves the right to make changes in the course requirements as needed throughout the semester. Students will be notified via email of any changes that are to be made. If an adjustment occurs in the number of points that can be generated, the course grade grid will be altered accordingly.

End of Course 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)

3. Student receives an Incomplete (I)
   - A student who has completed all work but the last unit test and final exam successfully in accordance with the Course Calendar AND/OR has medical issues or other extreme circumstances may be eligible for an Incomplete grade.
   - Only students who have worked consistently and regularly throughout the semester may qualify for an Incomplete.
   - The student needs to make individual arrangements with the instructor for plans to finish the course.
   - A contract for the Incomplete must be included with the instructor’s final grades.
   - Incomplete contracts must be approved by the last week of the term and may be accepted via email.
   - The contract includes a deadline for completion, agreed upon work to be finished and a grade alternative if the contract is not fulfilled.
   - The student does not have to re-enroll in the course, nor buy new materials.

4. Student receives a D or 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.
Description of Graded Work

Homework:
- All homework posted in MLP EXCEPT the ones marked optional are required.
- **Deadlines for homework are noted in course calendar.**
- **Students should show ON PAPER the steps needed to complete the problems posted in MLP.**
- For certain sections of HW, you will scan and turn in your work to me. I will give feedback to prepare you for steps expected on the tests.
- The score found in MLP is **NOT** your final homework grade!
  At the end of the term, I will manage incompletes – meaning, 0’s will be submitted for work not finished. Managing incompletes may change the homework average shown in the MLP gradebook.
- **Free tutors are available in the STEM Tutoring Center:** Online tutoring will be available Mon. through Saturday! Link to setup will be posted in eCampus.

Guided Note Assignments:
- **Will only be required for section 1.9, Chapter 3 and a few other limited sections.**
- **Details found in Lesson Plan posted in ecampus.**

Chapter Tests:
- Exams will be taken in MLP
- Answers will be entered into MLP but process to solve all problems must be shown on paper.
- Test work will be scanned and emailed to me. (Work must be submitted as one single pdf file. Multiple pictures cannot be accepted.)
- Test work must be submitted on time or no credit earned.
- Exam deadlines are posted in the Course Calendar.
- Tests will be designed to take approximately one hour but there will be a three hour time limit set in MLP.
- Final exam is optional; it covers only Chapters 3 & 5 & section 1.9.

No Retakes / No Makeups
- **Only extenuating circumstances, where reasons for missing these exams are unpreventable.** These conditions are subject to your instructor’s judgment.
- Contact me if you have an issue that causes you to miss an exam deadline.
- With permission, the final exam may be used to replace the lowest of your Test 1 or Test 3 score, including a zero due to an exam not taken.
- **This substitution with the final exam is ONLY allowed IF Your HW average is at least 80%**
If you miss the deadline for more than one exam, you should contact your instructor as soon as possible to discuss your situation.

**Important Time Requirements:** You can expect to spend 12-16 hours each week in this course. If you cannot donate this amount of time to this course, your success will be diminished. This information is not meant to scare you. It is meant to give you a "heads up" that you need to stay on track and work on this class EVERYDAY!

**Late Work Policy**

Students are expected to complete all assignments by the due dates posted in class and posted in MLP. Students may be penalized by 10% (reduction) for work that is late.

**STEM/Math Center**

Math Tutors will be available for tutoring Monday through Saturday! A link will be posted in eCampus.

**Other Course Policies**

**Financial Aid Certification of Attendance:**
To be certified as attending this course, a student must log into MyLabsplus and complete the Getting Started in MyLabsPlus by midnight of April 2nd – Thursday night.

**Sending emails:**
- Be sure to put “MATH 2412-section, Last Name” in the subject line for all emails you send.
- Include your first and last name in the message of the email.

**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.

[North Lake College Institutional Policies Web Site](#)

**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 **May 4th, 2020.** 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
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 a virtual appointment **call 972-273-3333.**

Syllabus and calendar subject to modification as deemed necessary by instructor.

### Course Schedule: detailed calendar posted in eCampus classroom

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Orientation --- Detailed weekly assignment calendar posted in eCampus Section 1.9, 3.1</td>
</tr>
<tr>
<td>2</td>
<td>Sections 3.2 – 3.6</td>
</tr>
<tr>
<td>3</td>
<td>Sections 4.1 – 4.4</td>
</tr>
<tr>
<td>4</td>
<td>Section 4.5 &amp; 4.6 (not covering 4.7) Section 5.1</td>
</tr>
<tr>
<td>5</td>
<td>Sections 5.2 – 5.5</td>
</tr>
<tr>
<td>6</td>
<td>Section 10.1, 10.3, 10.4 + Summary of Ch 11</td>
</tr>
<tr>
<td>7</td>
<td>Chapter 12 Summary Sec. 12. 5 + 12.6 + Preparation for Calc. I documents</td>
</tr>
</tbody>
</table>

**To be prepared for Calculus I, I suggest that over the Maymester break you review the following:**
- Review Ch. 2( Sec.2.3 & 2.4),
- Review and practice posted HW for Ch. 6,7,8, 12.5
- Review Ch. 11.4 and 11.5 carefully
- Strongly suggested you review all of Chapter 12

**Filling in the guided notes for these sections while reading the eText would be EXTREMELY BENEFICIAL for you.**