SYLLABUS (MA 106-ZNB)
Pre-Calculus Trigonometry

Semester: Fall 2016  Section: 106-ZNB  Instructor: Jarrod M. Hicks

Instructor e-mail: jarrodh@uab.edu  Phone: 934-2154 (Math Office)  Office location: HHB 202

Instructor office hours:

NOTE: All instructor office hours are held during lab meeting time in the UAB Math Learning Laboratory (MLL), room 202 Heritage Hall. Other times are available by appointment.

Class Meeting Time/Location: Tue 2:00 -- 3:15 pm in Humanities 312
Lab Meeting Time/Location: Thu 2:00 -- 3:15 pm in Heritage Hall 202

Course Description: (3 semester hours) Trigonometric functions (circular functions) and their inverses, graphs, and properties; right triangle trigonometry and applications; analytical trigonometry, trigonometric identities and equations; polar coordinates; laws of sines and cosines; conic sections.

Learning Outcomes:

Upon successful completion of MA 106, a student
• understands trigonometric functions and their inverses from an algebraic, geometric (graphical), and numerical viewpoints (including domains and ranges);
• is able to apply trigonometric principles to solve problems involving triangles;
• can interpret the plane from the viewpoint of both rectangular coordinates and polar coordinates and knows how to move between these representations;
• understands conic sections, their definitions, and their graphs;
• is able to translate verbal descriptions into mathematical form in the solution of problems;
• is able to construct and interpret tables, graphs, and algebraic representations of functions, and move among them;
• is able to draw relevant conclusions from algebraic models and applications, and communicate them in appropriate ways to an audience.

In addition to developing specific algebraic skills relevant to an understanding of functions, these learning outcomes promote students’ development of quantitative literacy.

Materials: Precalculus Trigonometry MA 106 package, which includes a UAB Math 106 Student Workbook, by Elena Kravchuk, 2014, Pearson/Prentice Hall, and MyMathLab ACCESS CODE, is required. You may not need an access code and can purchase the UAB MA 106 workbook as a stand-alone item if you were taking MA 105 in Fall 2014 or later, or are retaking MA 106 taken in Fall 2014 or later. Students are required to have the MA106 student workbook and to bring it to the class lecture meetings. (Participation credit is given only when the student has the workbook with them during class meetings.)

Prerequisite: Grade of “C” or better in MA 105, or beginning freshmen must meet Math Screening requirements (see ACT/SAT Math Subscore/GPA Grid in the latest UAB Class Schedule). Transfer students
must have an appropriate score (80% or higher) on the MA 106 UAB Placement Test in order to be eligible for MA 106.

**Attendance policy:** Attendance at every class meeting and lab meeting is **required.** Roll will be taken. There are 13 scheduled class meetings and 13 scheduled lab meetings. Students earn 5 participation points toward their final grade for each class or lab meeting attended. *To earn the Participation Points students must be in the classroom or lab at the start of the meeting and at the end of the meeting.* The following rules apply:

1. **Students may not sign the roll for another student.** Violation of this policy will result in a grade of F for academic misconduct.
2. Students must participate in class with their workbook open, taking notes.
3. All electronic devices (cell phones, laptop computers, etc.) must be turned off and put away during class.
4. **Students may not sign the roll for another student.** Violation of this policy may result in a grade of F for academic misconduct for both students.
5. If you come late to the class meeting, and the roll has passed your seat, do not ask to sign it.
6. Do not sign the roll if you intend to leave the class early.
7. In case of emergency, students may leave the class without the instructor’s permission. Just get the instructor’s attention and leave quietly with minimal disruption to the rest of the class.
8. **No participation points can be earned if the student is absent,** whether or not the absence is excused. If you are absent on official university business, you can obtain tutoring to earn the participation points. Arrangements must be made in advance of the absence.

**Course Structure:** This course is primarily computer-based. All homework assignments and quizzes are on-line and can be completed either on your own computer or using one of the computers in the UAB Math Learning Lab (MLL in 202, Heritage Hall) anytime before the scheduled deadline (please note that deadlines include specific dates and times). All tests and the final exam are also done on the computer, but they must be taken in the MLL according to your class schedule during your lab meeting time. **In order to receive credit for homework and quizzes, the work must be done on or in advance of course deadline dates.** See the course schedule at the front of this syllabus for the course deadline dates.

**BE SURE TO READ THE STUDENT EXPECTATIONS STATEMENT ON PAGE 3 FOR IMPORTANT INFORMATION ABOUT THE COURSE.**

**Getting Started:** The first thing you must do is access for your on-line course materials.

**Access for a Course in MyMathLab Plus**

All Homework, Quizzes, and Tests for this course are available only in MyMathLab Plus. A MyMathLab Plus account has already been established for you and must be activated.

- Log in to BlazerNet and click on the MyMathLab Plus link.
- Click on your course.
- Choose one of the following:
  - Access Code (enter your printed code)
  - Buy Now (credit card required)
Pay Later (allows temporary access, good for only 14 days, no extensions when it expires)*

*Once Pay Later (Temporary Access) has expired, you will be prompted to choose Access Code or Buy Now. You will no longer have access to your course materials and assignments in MyMathLab Plus until you enter your code or purchase it. Please note that there will be NO EXTENSIONS for missed homework, quiz, or test deadlines due to failure to purchase access to your online materials. If you have any questions regarding your MyMathLab Plus account or access to your account, email your course instructor or you may stop by the Math Learning Lab in HHB202.

TROUBLESHOOTING TIPS:

If you have difficulty accessing your assignments in MyMathLab Plus, try the following steps:
- Close the browser and start over logging into BlazerNet. You can only access through BlazerNet.
- Run the Browser check to make sure you have all needed components.
- Try a different browser. Some work better than others (use Mozilla Firefox!)
- Contact Pearson technical support via chat.
- Have a backup plan: Go to the MLL in HBB 202 and do your work there. Ask the staff for help.
- If the above steps do not work, email your instructor or stop by the Math Learning Lab in HHB202.

STUDENT EXPECTATION STATEMENT

The Course Syllabus and Schedule serve as a Contract by which the student must comply. An excuse of “not knowing” information covered in these documents is not an acceptable excuse for making mistakes in this class. To emphasize the importance of knowing the syllabus you must take a Syllabus Quiz before beginning any other assignments. You must score 100% on this quiz in order to continue the course.

- Students are required to complete weekly assignments. All deadlines are based on Central Time. There are NO EXTENSIONS of DEADLINES.
- Students are expected to check their UAB e-mail daily and respond within 48 hours to instructor emails. Regular communication via e-mail with the Course Instructor is expected. Be sure to include your name, the course and section number in all communications with your instructor.
- It is the student’s responsibility to make sure a valid e-mail address is provided. Failure on the student’s part to do so can result in the student missing important information that could affect his grade. Students are responsible for the information that is sent to their UAB e-mail account. The Course Instructor will not accept e-mails sent from e-mails accounts than other UAB.
- Students are expected to devote an average of 8 to 12 hours per week to the assignments.
- Students are expected to have a back-up plan in the event their computer has operational problems, there is loss of electricity, or there is loss of Internet access. These are not an excuse for late or incomplete submission of assignments, nor are they acceptable reasons for an assignment deadline extension. UAB’s
MLL, most public libraries, school libraries, university libraries, etc. have computers with Internet access and are available for use by the public.

* The Math Learning Lab (MLL) in 202 Heritage Hall is available for student use Monday through Friday. Students in this course may use the computers to complete assignments, and they may get assistance from math tutors. Go to the math department website and click on Student Resources tab for details (http://www.uab.edu/mathematics).

**Math Help.** Tutoring assistance is available in the Math Learning Lab (MLL) located in Heritage Hall 202. The MLL is normally open Monday through Friday and on Sundays. The hours of operation are posted on the door and can also be viewed on-line at www.math.uab.edu under Math Lab: Hours of Operation.

The University Academic Success Center (UASC) provides students with a host of free services and resources that include Tutoring and Supplemental Instruction. For more information, go to http://www.uab.edu/students/academics/student-success.

**Calculator policy:** Scientific calculators may be used for homework and quizzes, but **students may not use personal calculators while taking tests.** Note that all tests and the final exam for this course are administered in the MLL during your scheduled lab meeting times, and there is an on-screen scientific calculator available for your use when testing. Your instructor will not assist you with the on-screen calculator during a test, so it would be to your advantage if you familiarized yourself with the use of the on-screen calculator in the MLL before you have to take a test.

**Course Grades:** Students earn their grade in the course by accumulating points. There is a maximum of 1001 points available. Student letter grades are awarded as shown in the following tables. Students should go to https://secure.cas.uab.edu/mll/db/ to review the status of their grades in the course. Note that grades are awarded by points earned, not by percentages.

<table>
<thead>
<tr>
<th>Number of Points</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>880 to 1001</td>
<td>A</td>
</tr>
<tr>
<td>750 to 879</td>
<td>B</td>
</tr>
<tr>
<td>620 to 749</td>
<td>C</td>
</tr>
<tr>
<td>500 to 619</td>
<td>D</td>
</tr>
<tr>
<td>Below 500</td>
<td>F</td>
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<table>
<thead>
<tr>
<th>Grade Element</th>
<th>Points</th>
<th>Quantity</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>7</td>
<td>13</td>
<td>91</td>
</tr>
<tr>
<td>Participation</td>
<td>5</td>
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<tr>
<td>Quizzes</td>
<td>10</td>
<td></td>
<td>130</td>
</tr>
<tr>
<td>MLL attendance</td>
<td>5</td>
<td>13</td>
<td>65</td>
</tr>
<tr>
<td>Tests</td>
<td>100</td>
<td>4</td>
<td>400</td>
</tr>
<tr>
<td>Final Exam</td>
<td>250</td>
<td>1</td>
<td>250</td>
</tr>
<tr>
<td>Total points</td>
<td></td>
<td></td>
<td>1001</td>
</tr>
</tbody>
</table>

**Note that 879 points earns you a grade of B, not a grade of A, etc.**

**Homework:** There are 13 homework assignments. For each assignment you can earn up to 7 points, based on your homework score. An **unlimited** number of attempts can be made on each homework problem. If you miss a problem, click on similar exercise to work another problem correctly for full credit. There is no time limit for homework, so you may go in and out of the homework as many times as you like before the deadline (all your work is automatically saved). You earn points for homework completed on or before the due date. After the due date, you can review homework assignments and work similar exercises, but you cannot change your score.
Class Meetings: There are 13 class meetings. For each class meeting that you attend you will earn 5 participation points. Points are earned if you are on time, and if you stay in the classroom for the entire class meeting. **No participation points are awarded for an absence (excused or unexcused).**

Quizzes: There are 13 quizzes. Each quiz is worth 10 points. **Quizzes can be taken at home or in the Math Learning Lab** (during the scheduled hours of operation) on or before the deadline. **You must complete the quiz by yourself.** You may not obtain assistance from a fellow student or from a tutor. The quizzes are timed. Once you begin a quiz you must finish it within 30 minutes. You cannot exit the quiz or that will count as one of your attempts. Each quiz can be taken a maximum of two times. The higher grade attained will count.

MLL Attendance: There are 13 lab meetings. For each lab meeting that you attend, you will earn 5 points. Points are earned if you are on time, and if you stay in the lab for the entire meeting. **No points are awarded for an absence (excused or unexcused).**

Students can work on their homework, take quizzes, obtain tutoring assistance, and listen to course video lectures in the MLL. (To watch and listen to computer video lectures, students can bring their own headsets or can check out a headset from the MLL.)

Tests: There are four major tests to be taken. Tests will be taken **in Heritage Hall 202** during scheduled lab meeting times. The tests are timed and are 50 minutes long. **Students are required to keep a government issued photo ID on their desks during testing (UAB student ID, driver’s license, etc).**

Make-up policy: There is no make up for missing any of the following: Participation Points, lab meeting attendance points, homework deadlines, or quiz deadlines. If a major test deadline is missed due to a serious verifiable circumstance, the student may submit an Appeal Form (available in the Math Department Office in 452 Campbell Hall) to the Math Department Appeals Committee. The Appeal Form, along with supporting documents attached, must be received no later than one week after the missed deadline. The appeal will be reviewed by the Director, the course instructor, the course coordinator and the Supervisor of the MLL. The student will receive a prompt reply as to the adjudication of the appeal, but should continue working in the course.

Final Exam: Students take the final exam just as they take the major tests. The cumulative final exam will be given on **December 13th, 2016 at 1:30 pm to 4:00 pm.**

Course Completion: The course is complete once the student takes the final exam. No other points may be earned after the final exam has been taken.

Cell Phones: Student cell phones must be turned off and put away during all class meetings. In the MLL, cell phones must be turned off during testing, and they should be set to vibrate mode at other times.

Laptops: Student laptops must be PUT AWAY during ALL class and lab meetings.

Notebook: Students are required to have a notebook in which they can record class meeting notes, file this syllabus, file instructor e-mail messages, and file other course related information.
Disability Support Services (DSS): DSS offers special accommodations to students who qualify. The UAB DSS office location is 1701 9th Avenue South, telephone: 934-4205, e-mail: dss@uab.edu. Students who have a DSS-approved accommodation for extended test times will take quizzes and tests that have a longer time duration. See your instructor for further information.

Withdrawal: The last day for withdrawing from this course without the payment of full tuition and fees is September 6 2016. The last day to withdraw from this course with a grade of W is October 21, 2016. Students withdraw from a course online using Blazernet or by completing the appropriate paperwork in the UAB Registrar’s Office in the Hill University Center. The signature of the instructor is not required.

**DEADLINE DATES**

Work should be completed before deadline dates but cannot be completed after deadline dates.

Deadlines for homework, quizzes, and tests are INDEPENDENT of one another.

You do not have to complete homework to take quizzes or tests. (However, it is recommended.)

There are no prerequisites for any of the graded assignments.

Once you take the Final Exam the course is complete, and no additional homework assignments or quizzes will count toward your grade. **You must attempt the Final Exam to complete the course** (even if you have 620 points prior to taking the Final exam).

<table>
<thead>
<tr>
<th>W</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>HW/Quiz</th>
<th>Test</th>
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<tbody>
<tr>
<td>1</td>
<td>8/29 FDOC</td>
<td>Class 1</td>
<td>5.1</td>
<td>8/30</td>
<td>8/31</td>
<td>9/01</td>
<td>MLL 1</td>
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<tr>
<td>2</td>
<td>9/5</td>
<td>Class 2</td>
<td>5.2, 5.3</td>
<td>9/06</td>
<td>9/07</td>
<td>HW 1, Q1</td>
<td>9/08</td>
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<tr>
<td>3</td>
<td>9/12 HW 2, Q2</td>
<td>Class 3</td>
<td>5.4, 5.5</td>
<td>9/13</td>
<td>9/14</td>
<td>9/15</td>
<td>MLL 3</td>
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<td>4</td>
<td>9/19 HW 3, Q3</td>
<td>Class 4</td>
<td>5.6, 5.7</td>
<td>9/20</td>
<td>9/22</td>
<td>T#1 (HW 1-3)</td>
<td>9/23</td>
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<tr>
<td>5</td>
<td>9/26 HW 4, Q4</td>
<td>Class 5</td>
<td>5.8, 6.1, 6.2</td>
<td>9/27</td>
<td>9/28</td>
<td>9/29</td>
<td>MLL 5</td>
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<td>6</td>
<td>10/3 HW 5, Q5</td>
<td>Class 6</td>
<td>6.3</td>
<td>10/04</td>
<td>10/05</td>
<td>10/06</td>
<td>MLL 6</td>
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<td>10/10 HW 6, Q6</td>
<td>Class 7</td>
<td>6.4, 6.5, 6.6</td>
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<td>10/12</td>
<td>10/13</td>
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<td>10/17 HW 7, Q7</td>
<td>Class 8</td>
<td>7.1, 7.2</td>
<td>10/18</td>
<td>10/19</td>
<td>10/20</td>
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<td>10/24 HW 8, Q8</td>
<td>Class 9</td>
<td>7.3, 7.4</td>
<td>10/25</td>
<td>10/26</td>
<td>10/27</td>
<td>MLL 9</td>
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<td>11/02</td>
<td>11/03</td>
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<td>11/30</td>
<td>12/01</td>
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<td>12/06</td>
<td>12/07</td>
<td>HW 13, Q13</td>
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<td>16</td>
<td>12/12</td>
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<td>12/14</td>
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<td>Final ZNA-8:00-10:30am</td>
<td>12/16</td>
<td>Finals</td>
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The Syllabus Quiz is the only prerequisite for the graded assignments.