Syllabus for Summer 2020
Math 108 – Trigonometry – Section 1

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Please include “108” in the subject line of your email

ALEKS: http://www.aleks.com
Canvas: https://wsu.instructure.com/
Announcements and assignments will be posted on these websites. Please check them frequently.

Credits: 2 credits for Math 108
Prerequisites: Math 106 with a grade of C or better.
Meeting Times: MTWThF 9:00-10:15am

Required Supplement:
ALEKS access code, sold at the Bookie, bundled with the printed trigonometry chapters of the textbook. Can also be purchased through the ALEKS website: aleks.com

Optional Text:

Course Description: You will learn: a) the trigonometric functions as derived from the unit circle and from right triangles, and b) the trigonometric identities. For each class of functions, we will study the domains, ranges, transformations, graphs, special properties, and applications. By the end of the course you should understand all these concepts, and be able to solve problems and equations involving all six trigonometric functions. These functions that will be used in classes such as calculus, physics, biology, and engineering.

Course Goals: You will develop learning skills that are important for your success in this and future courses, and that have applications in lifelong learning. In particular, you will learn to:
• Understand and apply quantitative principles and methods to define, analyze, and solve problems.
• Integrate and synthesize knowledge and different techniques to solve problems.
• Draw conclusions from computational and symbolic representations in order to check the logic and validity of statements and models.
• Clearly communicate your reasoning and findings.

Learning Outcomes: At the end of this course, you should be able to do the following.
• Understand the concept of radian and degree, and convert from one to the other.
• Know the unit circle definitions and the right triangle definitions of the six trigonometric functions.
• Use the six inverse trigonometric functions to find angles.
• Know the properties of the trigonometric functions.
• Identify periodic functions and their periods.
• Read and create representations of data using tables and graphs, interpret this information in the context of a real-life situation, and determine whether your answer makes sense in the context of the problem.
• Identify features of a function from its algebraic and graphical representation (such as domain, range, intercepts, maximum and minimum values,), and interpret this information in a real-life situation.
• Understand transformations of a function and how transformations affect the shape of the graph of a function (horizontal and vertical shifts, stretches and compressions, and reflections); and apply this understanding when graphing the functions.
• Use appropriate functions as mathematical models for a real-life situation and convert it into an appropriate mathematical statement.
• Develop and demonstrate the ability to communicate mathematical ideas clearly using correct mathematical terminology and appropriate mathematical notation.

Grade Distribution for Math 108: Your overall grade is based upon the following point system.

<table>
<thead>
<tr>
<th>Activities (10 points each, best 11 out of 15)</th>
<th>110 points (27.5%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALEKS Homework (10 points each, best 9 out of 10)</td>
<td>90 points (22.5%)</td>
</tr>
<tr>
<td>Quizzes (50 points each)</td>
<td>200 points (50%)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>400 points</strong></td>
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Grading Scale for Math 108

<table>
<thead>
<tr>
<th>Passing Grades</th>
<th>Grades Requiring a Course Repeat</th>
</tr>
</thead>
<tbody>
<tr>
<td>93.0%</td>
<td>A</td>
</tr>
<tr>
<td>90-92.9%</td>
<td>A-</td>
</tr>
<tr>
<td>87-89.9%</td>
<td>B+</td>
</tr>
<tr>
<td>83-86.9%</td>
<td>B</td>
</tr>
<tr>
<td>80-82.9%</td>
<td>B-</td>
</tr>
<tr>
<td>77-79.9%</td>
<td>C+</td>
</tr>
<tr>
<td>73-76.9%</td>
<td>C</td>
</tr>
<tr>
<td>70-72.9%</td>
<td>C-</td>
</tr>
<tr>
<td>67-69.9%</td>
<td>D+</td>
</tr>
<tr>
<td>60-66.9%</td>
<td>D+</td>
</tr>
<tr>
<td>0-59.9%</td>
<td>F</td>
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</tbody>
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Quizzes
• There are 4 quizzes that will be held on the 4 Fridays of the term during the last 45 minutes of the regular class time.
• The first 30 minutes of class will be a brief review and a chance to ask questions about what we’ve covered that week.
• Due to the distance-delivery format of the course, calculators are allowed and quizzes will also be open-book and open-notes.
• Questions will be more about applying concepts and setting up problems than just performing calculations.

Activities: There will be 15 activities worth 10 points each and the 4 lowest scores will be dropped. During each class period (Monday through Thursday), as we work through the lesson for the day, there will be 2-3 comprehension questions that you will be expected to answer as the participation/attendance portion of the grade. The questions will be made available at the beginning of the class period through Zoom, and you will be expected to complete and submit them by 5:00pm the
same day. The questions will not be posted on the Canvas site and late submissions will not be accepted.

**ALEKS:** You will do your homework in the ALEKS on-line system. There are 10 homework assignments that will be due on Mondays, Wednesdays, and Fridays by 11:59pm. Each assignment is worth 10 points, and the lowest score will be dropped.

In addition, it is recommended that you regularly work on the “pie” in ALEKS. This is useful because you can get extra practice and immediate feedback.

There are no intermediate deadlines for completing the pie, but you will earn up to 15 points extra credit for completing the pie by June 5th at midnight. Extra credit will be earned as follows:

- Less than 50% complete earns 0 points
- 50% complete earns 5 points
- 60% complete earns 7 points
- 70% complete earns 9 points
- 80% complete earns 11 points
- 90% complete earns 13 points
- 100% complete earns 15 points

**In-Class Assessments:** There will be 25 in-class assessments given throughout the semester, as noted on the course calendar. These are to assess your knowledge of the material we have learned in class. No make-up assessments are given. Your lowest 5 assessment scores are dropped, so if you miss an assessment that is one of the scores that will be dropped.

**Attendance Policy:** You are expected to attend every class period. When you miss class, you miss important material. You are responsible for learning any material you miss when absent, I will not individually re-teach the material. Be sure to consider this when thinking about skipping class.

The minimum time commitment for independent study is 3 hours of work per week for each credit hour. So you are expected to do **at least** 6 hours of work each week outside of class time for this course.

**Study Assistance:** You are strongly encouraged to form study groups and discuss homework problems with classmates. Tutors, teaching assistants, and I, are also here to assist you, but you must make a serious attempt at the problem and ask specific questions in order to get the most out of our help. Always ensure you understand and are able to do the work on your own in the end.

Successful students make use of available resources, so don't struggle when help is just a few steps away! We want you to succeed, and there is FREE tutoring available in the Math Learning Center (MLC, Cleveland 130).

For more information, please go to: [http://www.math.wsu.edu/studyhalls/welcome.php](http://www.math.wsu.edu/studyhalls/welcome.php)

**Electronic Devices** such as laptops, tablets, cell phones, and similar devices may not be used during class without instructor permission. You may be asked to leave the classroom if you are found to be in violation of this rule.
**Reasonable accommodations** are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call your campus resource to schedule an appointment. All accommodations MUST be approved through the campus resource. For more information contact a Disability Specialist on your campus:

509-335-3417, Washington Building 217, Access.Center@wsu.edu, accesscenter.wsu.edu

**Academic integrity** is the cornerstone of higher education. As such, all members of the university community share responsibility for maintaining and promoting the principles of integrity in all activities, including academic integrity and honest scholarship. Academic integrity will be strongly enforced in this course. Students who violate WSU’s Academic Integrity Policy (identified in Washington Administrative Code (WAC) 504-26-010(3) and -404) will receive a zero for the exam or assignment, will not have the option to withdraw from the course pending an appeal, and will be reported to the Office of Student Conduct.

Cheating includes, but is not limited to, plagiarism and unauthorized collaboration as defined in the Standards of Conduct for Students, WAC 504-26-010(3). You need to read and understand all of the definitions of cheating: [http://app.leg.wa.gov/WAC/default.aspx?cite=504-26-010](http://app.leg.wa.gov/WAC/default.aspx?cite=504-26-010). If you have any questions about what is and is not allowed in this course, you should ask course instructors before proceeding.

If you wish to appeal a faculty member's decision relating to academic integrity, please use the form available at conduct.wsu.edu.

**Classroom and campus safety** are of paramount importance at Washington State University, and are the shared responsibility of the entire campus population. WSU urges students to follow the “Alert, Assess, Act,” protocol for all types of emergencies and the “Run, Hide, Fight” response for an active shooter incident. Remain ALERT (through direct observation or emergency notification), ASSESS your specific situation, and ACT in the most appropriate way to assure your own safety (and the safety of others if you are able).

Please sign up for emergency alerts on your account at MyWSU. For more information on this subject, campus safety, and related topics, please view the FBI’s Run, Hide, Fight video and visit the classroom safety page provost.wsu.edu/classroom-safety.