



## Syllabus for Fall 2018

### Math 108 – Trigonometry – Sections 2 & 5

**Instructor:** Christy Jacobs  
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**Office Hours:** MW 9:10 –10:50  
or by appointment in case of time conflict

**Please include "108" in the subject line of your email**

ALEKS: <http://www.aleks.com>

Blackboard: [learn.wsu.edu](http://learn.wsu.edu)

Announcements and assignments will be posted on these websites. Please check them frequently.

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Credits: 2 credits for Math 108

Prerequisites: Math 106 with a grade of C or better.

Meeting Times: Section 2 – T,Th 9:10-10am in Spark G10, Section 5 – 12-12:50pm in Webster 17

Required Text and Supplements:

1. 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](http://aleks.com)

**ALEKS COURSE CODE:** RHHKG-4TKGE

2. Textbook: *College Algebra and Trigonometry*, Julie Miller, First Edition, Published by McGraw Hill. An E-book is available with the purchase of an ALEKS 360 access code. These can be purchased at The Bookie or Amazon. ( ISBN10: 0078035627 | ISBN13: 9780078035623 )

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.

Activities (5 points each. Best 10 out of 12)	50 points (11.1%)
ALEKS Modules (5 points each. Best 10 out of 12)	50 points (11.1%)
In-Class Quizzes (5 points each. Best 10 out of 12)	50 points (11.1%)
Blackboard Quizzes (5 points each. Best 10 out of 12)	50 points (11.1%)
Exam 1	100 points (22.2%)
Comprehensive Final Exam	150 points (33.3%)
<b>Total</b>	<b>450 points</b>

Grading Scale for Math 108

Passing Grades

93% – 100%	A
90% – 92.9%	A-
87% – 89.9%	B+
83% – 86.9%	B
80% – 82.9%	B-
77% – 79.9%	C+
73% – 76.9%	C

Grades Requiring a Course Repeat

70% – 72.9%	C-
67% – 69.9%	D+
60% – 66.9%	D
0% – 59.9%	F

Exams

**Midterm Exam: Tuesday, October 9 at 6:30 p.m. Location: Spark G45**

**Final Exam, comprehensive: Friday, December 14, 7 – 9 p.m. Location: TBA**

- **Early exams will not be given for any reason. Plan accordingly for the final exam.**
- If you have a class or a lab at the same time as the exam, you will take the exam on the day following the exam. Speak to your instructor about the alternate time.
- Make-up exams are given only in extremely rare cases. If you know you must miss an exam, you must notify me prior to the exam in order to be eligible for a make-up exam. I will determine if a make-up exam is applicable.
- **Calculators are not allowed on exams.**
- You will be provided with a blank unit circle for your use and a page of trig identities on all exams.
- Bring your student ID to the exams.

Activities: There will be 12 activities worth 5 points each and the 2 lowest scores will be dropped. **You may not make up an activity.**

ALEKS Modules: The modules are through the on-line homework system within ALEKS.

- You will get immediate feedback regarding whether or not your answer is correct.
- We recommend that you buy a notebook to use exclusively for the online homework. You should be writing your work down.
- In order to get credit for an ALEKS module, your grade on the module must be at least 60%. A grade below 60% is equivalent to a zero on that module. Notice that ALEKS shows your percentage, even if it is less than 60%, but the instructor's gradebook will show a zero.

In-Class Quizzes: There will be 12 in-class quizzes given throughout the semester. These are to assess your knowledge of the material we have learned in class. You will not be allowed notes or a calculator. The dates of the quizzes are on the schedule, so plan accordingly. No make-up quizzes are given. Your lowest 2 quiz scores are dropped, so if you miss a quiz that is one of the scores that will be dropped.

Blackboard Quizzes: There will be 12 quizzes in Blackboard given throughout the semester. These are to assess your knowledge of the material we have learned in class. The quizzes will be timed, so you will want to understand material before you start the quiz, as you will not have unlimited time to look it up. The dates of the quizzes are on the schedule, so plan accordingly. No make-up quizzes are given. Your lowest two quiz scores are dropped, so if you miss a quiz 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>

Electronic Devices: 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.

Students with Disabilities: 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 the Access Center to schedule an appointment with an Access Advisor. All accommodations MUST be approved through the Access Center or Disability Services. For more information, contact a Disability Specialist on your home campus. *Pullman or WSU Online: 509-335-3417, Washington Building 217;* <http://accesscenter.wsu.edu>, [Access.Center@wsu.edu](mailto:Access.Center@wsu.edu)

**No form of cheating will be tolerated in this class. If caught cheating on an exam, you will have the exam taken immediately away and be given a zero. You will also be reported to the Office of Student Conduct.**

Academic Integrity: 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 on the assignment and 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>. 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](http://conduct.wsu.edu).

WSU Safety: 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 WSU safety portal.