

Lake-Sumter State College Course Syllabus

Course Information:

Course Prefix and Number: **MAC 1114**
Course Title: Trigonometry
CRN: 20445(1st pd.), 20446(2nd pd.), 20444(6th pd.)
Credit Hours: 3
Semester: Spring 2020

Class Days, Location, Time: MTWRF, The Villages High School, room 220, 7:40 – 8:30, 8:40 – 9:30, 12:50 – 1:40.

Course Description: This is a calculus preparatory course in trigonometry that, in conjunction with MAC 1140 (Precalculus Algebra), is designed to provide the student with the trigonometric skills necessary for MAC 2311 (Calculus with Analytic Geometry 1). Major topics include: trigonometric functions, their properties and graphs; inverse trigonometric functions, their properties and graphs; right triangle trigonometry; trigonometric identities; trigonometric equations; the law of sines and the law of cosines; polar coordinates; vectors; and parametric equations. NOTE: A graphing calculator is required.

Instructor Information:

Item	Instructor Information
Name	Mary Ann Robertson
E-Mail	robertsm@LSSC.edu
Office Location	The Villages High School, The Villages, FL room 220
Phone	(352) 259-3777 ext. 1220
Office Hours	MTWRF 2:45 – 4:00

Vital Communication Information:

For e-mail, please note that all students are required to use Lakehawk Mail for official college e-mail communications. See the college webpage for [instructions on activating Lakehawk Mail](#).

Sending a private message using the MESSAGES tool in Canvas is always the most secure method of contacting your Instructor.

Please remember that any phone contact with your Instructor should be of a professional nature. Please always leave a clear, concise, but detailed message with your contact and class information. Always follow up a phone call with a written account via Canvas Message or e-mail.

Prerequisites/Co-requisites:

- Prerequisites: C or higher in MAC 1105 or appropriate placement score.

- Co-requisites: None

Textbook & Other Course Materials:

Required:

MyMathLab (MML) access code with etext - Homework is assigned in MML and counts for credit toward your final grade in the course. VHS provides the access code for Dual-Enrollment students at VHS.

A graphing calculator is also required. The TI-84 is recommended, but any graphing calculator that does not perform symbolic manipulation is acceptable. The TI-89 and TI-92 are not allowed. The TI-Nspire with TI-84 overlay is an acceptable calculator.

Optional:

Hard Copy Text - Precalculus: Functions and Graphs, Dugopolski, 4th Ed., Addison Wesley, Pearson Education, Inc., 2013

Technology Requirements:

- Canvas is a required component of this course. Students unfamiliar with Canvas are expected to complete the Student Orientation course located in Canvas within the first week of classes.
- Major writing assignments need to be created and saved in a file format that is compatible with Microsoft Word. If using a word processing program other than Word, it is the student's responsibility to adhere to all formatting and submission requirements. Please ask for help if you are unsure how to save a file in a Word-compatible format.
- See the [LSSC student Technology Help Desk website](#) for more information on how to obtain Microsoft Office 365 as an LSSC student.
- Reliable Internet connection is required. A high-speed internet connection is best. You may use the computers in our Learning Centers as needed.
- You are required to register for MyMathLab to access the homework that is to be completed for this course. Your course will be linked to MyMathLab through Canvas, so you will not need a course ID. If you already have a MyMathLab account from a previous course, you may use the same login information but may need to purchase a new access code.

Course Student Learning Outcomes:

The following outcomes will be assessed in this course. An "outcome" is defined as something the student takes with them beyond this course. After successful completion of this course, the student will:

- Demonstrates and applies knowledge of the six trigonometric functions.
- Demonstrates and applies knowledge of trigonometric identities and conditional equations.
- Applies trigonometry to the solution of problems, including real-world applications.

Course Objective:

Objectives are defined as what the course will do and/or what the students will do as part of the course.

To give the student a solid algebraic and trigonometric foundation for successful completion of the calculus sequence.

Institutional Policies & Procedures:

Academic Integrity:

The successful functioning of the academic community demands honesty, which is the basis of respect for both ideas and persons. In the academic community, there is an ongoing assumption of academic integrity at all levels. There is the expectation that work will be independently thoughtful and responsible as to its sources of information and inspiration. Honesty is an appropriate consideration in other ways as well, including but not limited to the responsible use of library resources, responsible conduct in examinations, and the responsible use of the Internet. See [college catalog](#) for complete statement.

Important Information for Students with Disabilities:

Any student with a documented disability who requires assistance or academic accommodations should contact the Student Accessibility Services immediately to discuss eligibility. The Student Accessibility Services (SAS) is located on the Leesburg Campus, but arrangements can be made to meet with a student on any campus. An appointment can be made by calling 352-365-3589 and specific information about SAS and potential services can be found at [Student Accessibility Services](#).

Privacy Policy (FERPA):

The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. § 1232g; 34 CFR Part99) is a Federal law that protects the privacy of a student's education records. In order for your information to be released, a form must be signed and in your records located in the Admissions/Registrar's Office.

Zero-Tolerance for Violence Statement:

Lake-Sumter State College has a policy of zero tolerance for violence as stated in College Board Rule 2.17. Appropriate disciplinary action will be taken in accordance with Board Rule 2.17.

Attendance/Withdrawal Policies:

Initial Attendance:

Initial attendance will be entered at the end of the second week of the semester/mini-mester. A student who has not met initial attendance requirements will be marked as "not-attending" and administratively withdrawn from the class. The withdrawn student is still financially responsible for the class (see the [college catalog](#)) for more details.

Withdrawal:

Once the Add/Drop period passes, students deciding to discontinue class attendance and/or online participation have the responsibility for formal withdrawal by the withdrawal deadline.

Withdrawal Deadline:

Monday, March 23, 2020

Instructor Policies:

- All answers must be in “**simplified form**” whether specified or not. For example, all fractions must be reduced. You will be expected to simplify answers in the same manner that I demonstrate in class.
- If you are disruptive, then disciplinary actions in accordance with the VHS student handbook will be implemented.
- Turn off all cell phone ringers and other non-required electronic devices (i.e. laptop, iPod, mp3, blackberry, etc.) before class. Students using unauthorized electronic devices during class will receive disciplinary actions in accordance with the VHS student handbook.
- If you are unexcused tardy to class and I am giving a test, then you have only the remaining class time to complete the test, as do the students who were on time.
- If you are caught cheating, you will either fail the assignment/test/quiz or fail the course, at the discretion of the instructor. **No warning will be given.**

Your Expectations of Me:

- ❖ I will treat you with courtesy and respect.
- ❖ I will respond to your telephone calls and e-mails within a reasonable period of time.
- ❖ I will be prepared for class.
- ❖ I will return papers within a reasonable period of time.
- ❖ I will do my best to help you prepare for future classes.
- ❖ I will model proper presentation and problem-solving techniques.
- ❖ I will model high standards of academic honesty and integrity.

My Expectations of You:

- ❖ You will treat me and your classmates with courtesy and respect.
- ❖ You will come to class prepared – having completed the appropriate assignments.
- ❖ You will contact me if you have questions or if you don't understand something.
- ❖ You will do your best to master this material and to submit work that you are proud to put your name on.
- ❖ You will display high standards of academic honesty and integrity.
- ❖ You are expected to participate in class.
- ❖ You will come to class on time and won't leave early.

Late Work/Extensions:

Make-up tests will be given at the discretion of the instructor. Call or email me prior to the test date and GET A RESPONSE from me before you make plans to take a make-up test. If you are absent due to an emergency, then email me as soon as possible or have your parent email me. **There is no make up for quizzes, exams, or tests, except under documented circumstances such as hospital stay, doctor excuse, police report, or military assignment, etc...** Students are expected to contact their instructor prior to class if they must be absent from a test for any reason. Each situation will be determined on a case-by-case basis by your instructor. Extensions are not possible unless permitted by SAS. Quiz, exam, or test make up will be administered on campus by the instructor or a proctor and are **not** eligible for “at home” completion.

Classroom Etiquette:

See instructor policies.

Grading Information:

Grading Scale:

A 90-100%

B 80-89%

C 70-79%

D 60-69%

F 59% and below

Methods of Evaluation:

Your grade is based on four components: in class paper tests, possibly quizzes, online homework, and a departmental final exam.

Assignment Overview & Grade Breakdown:

Category	Description	Points or %
Tests	You will have 4 tests throughout this semester course.	70%
Online Homework	A portion of your grade will be earned through the completion of online homework. This homework is assigned in MyMathLab and is designed to help you practice the concepts discussed in class. See the "Textbook and Other Course Materials" section of this syllabus for more details. Homework sections will be due by class time on the day of each corresponding test.	10%
Final Exam	You will have a cumulative final exam. If you meet the following condition, your final exam grade may also be used to replace a low test grade but not a zero test grade due to an unexcused absence. <ul style="list-style-type: none">• No unexcused absences on Tests or Zeros on Tests.	20%
Total		100%

Tentative Course Calendar MAC 1114 SPRING 2020 - CRN 20444, 20445, 20446

Week	Week of ...	Tests or other important information
1	Jan 6 5.1-Angles and Measurements, 5.2 Sine & Cosine Functions	
2	Jan 13 5.2 (Con't) 5.3 Graphs of Sine & Cosine Functions	
3	Jan 20 5.3 (Con't) 5.4 Other Trig Functions & Graphs	
4	Jan 27 5.4 (Con't), Review	TEST #1 (5.1, 5.2, 5.3, & 5.4)
5	Feb 3 5.5-Inverse Trig Functions, 5.6-Right Triangle Trig	
6	Feb 10 6.1-Basic Identities, 6.2-Verifying Identities.	
7	Feb 17 6.2 & Review,	TEST #2 (5.5, 5.6, 6.1, 6.2)
8	Feb 24 6.3-Sum & Difference Identities, 6.4-Double & Half Angle Identities	
9	Mar 2 6.4, 6.6-Conditional Trig Equations	
10	Mar 9 Review	TEST #3 (6.3, 6.4, 6.6)
	Mar 16 SPRING BREAK	
11	Mar 23* 7.1-Law of Sines, 7.2-Law of Cosines	*Monday, March 23 is the last day to withdraw from this course.
12	Mar 30 7.2, 7.3-Vectors	
13	Apr 6 7.6-Polar Equations, 7.7-Parametric Equations & Review	
14	Apr 13 Introduce 7.4,7.5 & Final Exam Review	TEST #4 (7.1, 7.2, 7.3, 7.6, & 7.7)
15	Apr 20 Study for Final	FINAL EXAMS April 21-22-23

Syllabus Disclaimer:

Information contained in this syllabus is, to the best knowledge of this instructor, considered correct and complete when distributed to the student. The instructor reserves the right, acting within policies and procedures of Lake-Sumter State College, to make necessary changes in course content or instructional techniques without prior notice or obligation to the student.