

Fall 2015

MATH 1126

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University of New Orleans

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Syllabus

MATH 1126-001 Pre-Calculus Trigonometry

Fall 2015

Classroom: MATH 118

Days & Time: MWF 10:00-10:50 AM

Instructor: T. Spahn

Office Phone: 280-7053

Office: LA 334 (Learning Resource Center)

Office Hours: T, TH – 9:30-10:30 AM
W – 11:00-11:50 AM

Email: tspahn@uno.edu

(other hours by appointment)

Required Textbook: Custom Edition Precalculus, 9th Edition by Sullivan

Pearson. ISBN-13: 978-1-256-94416-4; ISBN-10: 1-256-94416-5

Required Software: MyMathLab (packaged with textbook in bookstore) **MML course key: tusa50697**

Required Calculator: Only TI-30X II, TI-30X IIS, TI-30X IIB, TI-30XS, TI-30XB, or equivalent calculators
APPROVED AHEAD OF TIME BY THE INSTRUCTOR are allowed on tests.

Course Prerequisites: ACT Math ≥ 26 , SAT Math ≥ 590 , Compass College Algebra ≥ 46 , or C or better in Math 1125

WEEK OF		Sections Covered
August	19	5.3, Exponential Functions
	24	5.3, Exponential Functions 5.4 Logarithmic Functions
	31	5.5 Properties of Logarithms, 5.6 Logarithmic and Exponential Equations
September	7	5.6, Logarithmic and Exponential Equations 5.7 Financial Models, 5.8 Exponential Growth and Decay Problems
	14	5.8 Exponential Growth and Decay Problems Review for Test 1 Test 1
	21	6.1, Angles and Their Measure 6.2, Trigonometric Functions a Unit Circle Approach
	28	6.3 Properties of the Trigonometric Functions 6.4 Graphs of the Sine and Cosine Functions
October	5	6.6, Phase Shift 6.5 Graphs of Tangent, Cotangent, Secant and Cosecant Functions Review
	12	Test 2, 7.1, The Inverse Sine, Cosine and Tangent Functions
	19	7.2, The Inverse Trigonometric Functions 7.3 Trigonometric Equations
	26	7.4, Trigonometric Identities 7.5 Sum and difference Formulas 7.6, Double and Half Angle Formulas
November	2	Review for Test 3, Test 3 8.1, Right Triangle Trigonometry, Applications
	9	8.2, Law of Sines, 8.3 Law of Cosines 9.3 The Complex Plane, DeMoivre's Theorem
	16	9.3 The Complex Plane, DeMoivre's Theorem 12.5 The Binomial Theorem, A10 Rational Exponents
	23	Review for Test 4, Test 4
	30	Review for Final Exam

IMPORTANT DATES

Labor Day Holiday September 7
Fall Break October 15 - 16
Last Day to Drop Courses October 14
Thanksgiving Holiday November 26- 27
Last Day of Classes December 4

Student Learning Outcomes:

Students who successfully complete this course are expected to have a basic knowledge of:

- Exponential Functions
- Logarithmic Functions
- Angles and their Measurement
- Trigonometric Functions and Graphs
- Trigonometric Identities and Equations
- Complex Numbers

NOTES:

- Grading: Final exam = 33%
 Tests = 55%
 Homework/Quizzes = 12%
- The final exam is comprehensive and departmental.
- Free tutoring is available in the Math Tutor Center (MTC), Room 105 of the Mathematics Building.
- **THIS SYLLABUS IS SUBJECT TO CHANGE.**

FINAL EXAM

Monday, December 7, 10:00 AM – 12:00 PM

Student Conduct

The University of New Orleans (UNO) is a multicultural community composed of diverse students, faculty and staff. UNO will not tolerate discrimination or harassment of any person or group of persons based on race, color, religion, sex, disability, national origin, age, sexual orientation, marital or veteran status or any other status protected by law. Each member of the university is held accountable to this standard, which is strongly reflected in this code.

Academic Dishonesty

Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at <http://www.studentaffairs.uno.edu>.

Accommodations for Students with Disabilities

It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to <http://www.ods.uno.edu>.

How Class Will Be Taught

This class will be taught in a lecture format, with questions from students being encouraged. Typically each class will begin with solicitation of questions about homework problems or material that has been presented in class, or from the textbook. Students are **STRONGLY** encouraged to ask questions as they arise rather than waiting until just before a test to clear up any confusion. After any questions have been answered new material will be presented. A fairly large number of practice problems will be assigned from each section of the text that we cover. There will also be credit quizzes each week, done either in class or using MyMathLab. The MyMathLab key for this class is **tusa50697**. The in class quizzes will not be “pop” quizzes; the dates and contents will be announced in class. **You are responsible for keeping up with MML and the due dates for quizzes on MML.** For a few sections hand-written homework will also be collected. We will review for each test.

Expectations of Students

Students should arrive **on time to every class meeting and stay for the entire class meeting**. Students are expected to refrain from disruptive behavior during the class meeting. This includes, but is not limited to: conversing with fellow students, texting, accepting phone calls, using laptops and working on assignments for other courses. Students are expected to arrive on time for any scheduled tests or exams. Arriving late for a test or exam will likely result in less time allowed for completion of the test or exam. For example, if an exam is scheduled for 9:00-9:50, and a student arrives at 9:05, the student will only have the remaining 45 minutes until 9:50 to complete the exam. Not showing up for an exam or test without prior notification will result in a zero for that exam or test.

Course Materials

Required Textbook: Custom Edition Precalculus, 9th Edition by Sullivan
Required Software: MyMathLab (packaged with textbook in bookstore)
Required Calculator: Only TI-30X II, TI-30X IIS, TI-30X IIB, TI-30XS, TI-30XB, or equivalent calculators APPROVED AHEAD OF TIME BY THE INSTRUCTOR are allowed on tests.

Attendance Policy

Attendance will be taken daily. If you miss a class it is your responsibility to obtain the lecture notes from a classmate and/or your textbook before going to your instructor for help. If you leave class early you are counted absent for that day.

Tentative Test Dates

Test 1: Friday, September 18

Test 2: Monday, October 12

Test 3: Wednesday, November 4

Test 4: Wednesday, November 25

THESE TEST DATES ARE TENTATIVE. THEY MAY CHANGE AND IT IS YOUR RESPONSIBILITY TO ATTEND CLASS TO HEAR ANY ANNOUNCEMENTS REGARDING THE CHANGE OF THESE DATES.

Grades

There will be 4 semester tests as listed on the syllabus which will be worth a total of 55% of your final grade. NO TEST GRADES WILL BE DROPPED. NO TEST GRADES WILL BE CURVED. There is a departmental, cumulative final exam which will be worth 33% of your final grade. . Homework and quizzes will be assigned and graded weekly on MyMathLab. Homework is for practice and quizzes are for a grade. You must complete the homework before you are allowed to take the corresponding quiz. Once you complete the homework and get at least 80% correct, you may take the quiz up to 4 times. Your highest score on the quiz will be used in your overall average. NO MAKEUP QUIZZES WILL BE GIVEN FOR ANY REASON. Quizzes on MML are due on the due date and that will not be changed. To accommodate illnesses etc. 3 quizzes will be dropped at the end of the semester.

The grading scale for this course is

90% - 100%	A
80% - 89%	B
65% - 79%	C
55% - 64%	D
54% and below	F

Criteria for Graded Assignments

Assignments, tests and exams that will be graded for partial credit must adhere to the following guidelines: **ALL WORK MUST BE DONE IN PENCIL. All answers MUST be supported by work. No work = No credit. The final answer must be clearly marked. All answers must be exact and simplified completely.**

Make-up test policy

It is in your best interest to not miss a test. If you know you will miss a test ahead of time, contact me to set up a time to take the test BEFORE the regular test is given. If you miss a test for any other reason, the final exam grade will replace the zero for the missed test. The final exam grade will replace your lowest test grade if it is higher than your lowest test grade. Only one missed test will be replaced with the final exam grade. Any additional missed tests will be counted as a zero.

Advice on How to Study for Tests and Exams

The best way to study and prepare for tests and exams will be different for every student. Here are some recommended guidelines for successfully preparing for tests and exams:

- READ over any examples and notes from class BEFORE BEGINNING YOUR HOMEWORK. Work all homework problems out completely, showing all work, and keep this organized in a binder for easy reference.
- Before each test, time will be taken in class to review the test material. Use the in class review time to ask questions about any problems that you may have had trouble with.
- For any problems that you may have struggled with, go back to the homework and find similar problems. Practice these problems until you are able to complete them without any outside help (i.e. book, notes, etc.).

Resources

Your instructor is your first resource, so come to office hours if you have a question. However, there is also free tutoring in the Math Tutor Center (Math 105). Based on availability of tutors, the math department may offer free one-on-one tutoring.

Important Dates*

Last day to adjust schedule w/out fee08/18/2015
Semester Classes Begin08/19/2015
Last day to adjust schedule w/fee,
or withdraw with 100% refund08/25/2015
Last day to apply for December commencement09/25/2015
Final day to drop a course or resign 10/14/2015
Mid-semester examinations10/05-10/09/2015
Final examinations12/07-12/11/2015
Commencement 12/18/2015

**Note: check Registrar's website for Saturday and A/B sessions, and for items not listed here: <http://www.registrar.uno.edu>*

Fall Semester Holidays

Labor Day09/07/2015
Mid-semester break.....10/15-10/16/2015
Thanksgiving11/26-11/27/2015

Withdrawal Policy – Undergraduate only

Students are responsible for initiating action to resign from the University (withdraw from all courses) or from a course on or before dates indicated in the current Important dates calendar. Students who fail to resign by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester and be graded as if they were in attendance. Failure to attend classes does not constitute a resignation. Check the dates on the Registrar's website, <http://www.registrar.uno.edu>. Please consult The Bulletin for charges associated with dropping and adding courses.

Incomplete Policy – Undergraduate only

The grade of I means *incomplete* and is given for work of passing quality but which, because of circumstances beyond the student's control, is not complete. The issuance of the grade of I is at the discretion of the faculty member teaching the course. For all graduate and undergraduate students, a grade of I becomes a grade of F if it is not converted before the deadline for adding courses for credit (as printed in the Important Dates Calendar) of the next regular semester including summer semester.

Repeat Policy

When a student is permitted to repeat a course for credit, the last grade earned shall be the one which determines course acceptability for degree credit. A student who has earned a C or better in a course may not repeat that course unless, (1) the catalog description indicates that the course may be repeated for credit, or (2) the student's Dean gives prior approval for documented extenuating circumstances.

Graduate Policies

Graduate policies often vary from undergraduate policies. To view the applicable policies for graduate students, see the Graduate Student Handbook: <http://www.uno.edu/grad/documents/GraduateStudentHandbook2014.pdf>

Academic Dishonesty Policy

<http://www.uno.edu/student-affairs-enrollment-management/documents/academic-dishonesty-policy-rev2014.pdf>

Safety Awareness Facts and Education

Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: <http://www.uno.edu/student-affairs-enrollment-management/>

UNO Counseling Services and UNO Cares

UNO offers care and support for students in any type of distress. Counseling Services assist students in addressing mental health concerns through assessment, short-term counseling, and career testing and counseling. Find out more at <http://www.uno.edu/counseling-services/>. First-year students often have unique concerns, and UNO Cares is designed to address those students succeed. Contact UNO Cares through <http://www.uno.edu/fye/uno-cares.aspx>.

Emergency Procedures

Sign up for emergency notifications via text and/or email at E2Campus Notification: <http://www.uno.edu/ehso/emergency-communications/index.aspx>. All emergency and safety procedures are explained at the Emergency Health and Safety Office: <http://www.uno.edu/ehso/>.

Diversity at UNO

As the most diverse public university in the state, UNO maintains a Diversity Affairs division to support the university's efforts towards creating an environment of healthy respect, tolerance, and appreciation for the people from all walks of life, and the expression of intellectual point of view and personal lifestyle. The Office of Diversity Affairs promotes these values through a wide range of programming and activities. <http://diversity.uno.edu/index.cfm>

Learning and Support Services

Help is within reach in the form of learning support services, including tutoring in writing and math and other supplemental instruction. Visit the Learning Resource Center in LA 334, or learn more at <http://www.uno.edu/lrc/>.

Affirmative Action and Equal Opportunity

UNO is an equal opportunity employer. The Human Resource Management department has more information on UNO's compliance with federal and state regulations regarding EEOC in its Policies and Resources website: <http://www.uno.edu/human-resource-management/policies.aspx>