Math 111, Syllabus

Text: Sullivan, Trigonometry, Unit Circle Approach, plus MyMathLab software

**Minimal learning outcomes:**

**Trigonometric Functions**
Include angles and their measure, the six trigonometric functions via the unit circle, properties of trigonometric functions (including domain, range, period, fundamental identities, etc.), and graphs of trigonometric functions.

**Analytic Trigonometry**
Include inverse trigonometric functions, trigonometric identities (including sum and difference formulas, double-angle and half-angle formulas), and solving trigonometric equations.

**Applications of Trigonometric Functions**
Include the Law of Sines, the Law of Cosines, and finding the area of a triangle (including Heron's Formula).

**Polar Coordinates**
Include polar coordinates, graphs in polar coordinates, the complex plane, and De Moivre's Theorem.

Class Format: All sections meet together in a Lecture Session twice each week.

Most of the time in the Lecture Session will be spent on the discussion of new material.

Homework: You can find your homework by connecting to MyMathLab and looking under homework. The homework problems in each homework set are due one week after the section has been covered in class. You can check your answers. If you do not get the correct answer on a problem, you may redo it. Homework will count for 20% of your grade. Beginning with assignment 3, you should write up your homework and keep it in a workbook. After tests 2, 3, and before the final, you may show this homework to your TA for a bonus of up to 3 points on the test score.

Attendance in the large lecture is expected of all students enrolled in the class. Although the class is large, students should feel free to participate and ask questions. The learning environment is improved when students are attentive. Students should be respectful of other students and the instructor by actively seeking to understand the material.

Exams. There will be 3 midterm exams and a final. The first exam will count 5%. The other two exams and final will count 25% each.
Testing Schedule

Test 1 covers 1.6 and 1.7  
Test 2 covers 2.1-2.6  
Test 3 covers 3.1-3.8  
Final Exam covers 4.1-4.5, 5.1-5.3

ALL EXAMS INCLUDING THE FINAL WILL BE GIVEN IN THE TESTING CENTER

The examination will given in the testing center during the final exam week. The final exam will constitute 25% of your grade.

Grading: Your scores for homework, quizzes, tests, and final exam will be added and averaged, and letter grades will be assigned approximately as follows:

A: 93-100%  A-: 90-92%  B+: 87-89%  B: 84-87%  B-: 80-83%  C+: 74-79%  C: 67-73%  C-: 60-66%  D+: 57-59%  D: 54-57%  D-: 50-53%

Technology: In this course you will occasionally need a calculator. You can supply your own, find one on your computer, or check out a calculator from the math lab. You may use calculators on homework but not on tests. While many problems can be solved with the aid of technology, and some cannot be solved without it, technology is not always helpful; whether it will help with any particular problem, you must determine.

Here are some statements included at the suggestion of the University to inform you of expectations and of your legal rights and responsibilities relative to this class.

Honor Code Standards
In keeping with the principles of the BYU Honor Code, students are expected to be honest in all of their academic work. Academic honesty means, most fundamentally, that any work you present as your own must in fact be your own work and not that of another. Violations of this principle may result in a failing grade in the course and additional disciplinary action by the university.

Students are also expected to adhere to the Dress and Grooming Standards. Adherence demonstrates respect for yourself and others and ensures an effective learning and working environment. It is the university’s expectation, and my own expectation in class, that each student will abide by all Honor Code standards. Please call the Honor Code Office at 422-2847 if you have questions about those standards.

Preventing Sexual Harassment
Title IX of the Education Amendments of 1972 prohibits sex discrimination against any
participant in an educational program or activity that receives federal funds. The act is intended to eliminate sex discrimination in education and pertains to admissions, academic and athletic programs, and university-sponsored activities. Title IX also prohibits sexual harassment of students by university employees, other students, and visitors to campus. If you encounter sexual harassment or gender-based discrimination, please talk to your professor; contact the Equal Employment Office at 801-422-5895 or 1-888-238-1062 (24-hours), or http://www.ethicspoint.com; or contact the Honor Code Office at 801-422-2847.

Students with Disabilities
If you have a disability that may affect your performance in this course, you should get in touch with the office of Services for Students with Disabilities (1520 WSC). This office can evaluate your disability and assist the professor in arranging for reasonable accommodations.