MATH 1316 Plane Trigonometry, Summer 2024 Syllabus

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Office Hours:	Virtual meetings available by appointment.

Prerequisites: two years of high school algebra or successful completion of MATH 1314

Materials: We will be using the text <u>Precalculus</u> 2nd ed. by Abramson, et al. via OpenStax. This text is free and available via a link on Blackboard. Students will also require the following materials:

- **Gradescope:** this can be downloaded as an app, as well as accessed from a web browser. This is the way you will be turning in your assignments, and how your feedback will be made available to you.

- **Calculator:** a scientific calculator (or a calculator that can perform trigonometry calculations) is a requirement. A graphing calculator is helpful, but is not required.

This course partially satisfies a Core Curriculum Requirement: Mathematics Foundational Component Area (020)

Core Curriculum Objectives:

- Communications skills - to include effective written, oral and visual communication

- Critical thinking skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

- Empirical and quantitative competency skills - to manipulate and analyze numerical data or observable facts resulting in informed conclusions.

Student Learning Outcomes: Upon completion of this course and receiving a passing grade, the student will be able to:

1. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.

2. Graph trigonometric functions and their transformations.

3. Prove trigonometric identities.

4. Solve trigonometric equations.

5. Solve right and oblique triangles.

6. Use the concepts of trigonometry to solve applications.

IT IS THE RESPONSIBILITY OF THE STUDENT TO BE FAMILIAR WITH SOUTH PLAINS COLLEGE POLICIES. BELOW ARE ITEMS SPECIFIC TO THIS COURSE

Assessment: Grading will be done according to the standard 10 percent scale (i.e. 100% - 90% is an A, etc.) with assignments weighted according to the following:

Assignments	20%
Tests (each)	20%
Final Exam	20%

Pedagogy: This class is conducted in a "flipped" model. That is, students are expected to introduce themselves to the material and begin working on the material *before* the class meeting. Class time will be spent discussing more difficult parts of the material, answering student questions, and working on parts of the homework as a class or small groups.

Class Attendance: Students are expected to be in class and prepared for the day's lesson. Students are responsible for the material covered in this course, whether or not they are in class for any reason. A student missing more than 4 individual class days without continuing notification may be dropped from the course. Please note that state guidelines only allow for 6 withdrawn courses total.

Assignments (including exams) cannot be submitted late, nor made up in the case of an absence except at my discretion

Notes and Worked Problems: Assignments over the learning material will be turned in almost daily to Gradescope. They should consist of any notes taken over the material (from any source!) and fully worked problems from the assignments given over the material. Additional study habits such as mind-maps and written summaries should absolutely be included within these assignments. They will be graded on both the quantity and quality of the content submitted.

Quizzes: Quizzes will be given daily (except the day of an exam) to determine the collective standing of the class. Questions will be taken from the homework directly.

Exams: There will be two midterm exams given during this course. Questions will be similar (but not necessarily identical) to assigned homework problems or quiz questions. During exams cell phones, laptops, and other such objects should be turned off and put away. There is no tolerance for violations. Students who break these rules will be asked to leave the exam (counted as an absence) and receive a zero for their exam grade. *Makeup exams are not given.*

Final Exam: The final exam is comprehensive, and a required part of the course. Failure to take the final exam results in an automatic F. As the final exam is comprehensive, your course grade will not be lower than your final exam score. The Final Exam will be held in this classroom on **Friday**, July 5, at 3 pm

Civility in the classroom: Students are expected to assist in maintaining a classroom environment that is conducive to learning. Given that students may be asked to present material as a part of the course, and contribute openly in class, troublesome behavior will not be tolerated. At a minimum, this includes use of cell phones, making offensive remarks, reading newspapers, arriving late, leaving early or engaging in any other form of distraction. Infractions will be dealt with proportionally to the offense, and may include dismissal from that class period (which will count as an absence on your attendance record). Tobacco products are not permitted in the classroom.

Honesty: "Scholastic dishonesty" includes but is not limited to cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, and any act designed to give unfair academic advantage to the student. Incidents of academic dishonesty will be promptly reported and dealt with.

Plagiarism violations include, but are not limited to, the following:

1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill;

2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation;

3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or

4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:

1. Obtaining an examination by stealing or collusion;

2. Discovering the content of an examination before it is given;

3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;

4. Entering an office or building to obtain an unfair advantage;

5. Taking an examination for another;

6. Altering grade records;

7. Copying another's work during an examination or on a homework assignment;

8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;

9. Taking pictures of a test, test answers, or someone else's paper.