Course Designation

MAT 105. PLANE TRIGONOMETRY. Trigonometric functions; identities; trigonometric equations; applications. A student who has earned credit in MAT 106 cannot receive credit for this course. Prerequisite or Corequisite: MAT 104. 3 hours.

Text


General Course Objectives

Upon completion of the course, the student will be able to:

1. Define and evaluate trigonometric functions.
2. Graph trigonometric functions and recognize their graphs.
3. Prove trigonometric identities and simplify trigonometric expressions.
4. Solve trigonometric equations.
5. Solve triangles, given sufficient data, and use trigonometry to solve application problems.

Subject Matter or Content to be Studied

1. The trigonometric functions
2. Graphs of trigonometric functions
3. Inverses of trigonometric functions and the graphs
4. Solutions of right triangles
5. Trigonometric identities
6. Application of trigonometric functions to real world problems

Activities and Requirements

1. Class attendance, as determined by the regulations of the University and the Department.
2. Homework exercises to be completed by the student and graded at the discretion of the instructor.
3. Participation in class discussion and group work.
4. Scheduled tests will be given periodically throughout the semester. Students will be given adequate notice.
5. A comprehensive final exam will be given as scheduled at the end of the semester.
6. Regular and punctual attendance is necessary for successful completion of this course.
7. A scientific calculator is required. Students will not be allowed to use programmable calculators.
Presentation Methods

Lecture, cooperative learning through group work, and class discussion.

Tutoring Service

Free math tutoring is available in the Academic Support Lab on the third floor of the Union.

Evaluation and Grading

A series of class tests, pre-announced, will be administered during the semester and returned promptly to the students. Homework assignments will be made for each section of the textbook which is covered. Homework assignments will be made through MyMathLab as well as the textbook. Homework will be graded. Announced daily quizzes may be given throughout the semester. The homework/quiz grade will count the same as a major test grade. In addition, a comprehensive final exam will be administered and will constitute two sevenths of the grade for the semester. The final exam in this class is scheduled for Tuesday, December 8 at 3:00 pm.

Homework

Homework assignments will be made for each section of the textbook which is covered. Homework should be completed in a neat and orderly fashion. Homework is due at the beginning of the period; no late homework will be accepted.

Grading Scale

Grades will be assigned according to the following scale:

A (90% or above)  B (80% - 89%)  C (70% - 79%)  D(60% - 69%)  F (below 60%)

Cheating and plagiarism are not tolerated. If it is established that a violation has occurred, the instructor may determine the penalty, or he may report the offense to the department chair and dean of the school. The usual penalty involves a grade of zero on the test, examination, or paper in question.

Make-Up Tests, Class Attendance, and Tardiness

A student absent from class and missing a scheduled test is entitled to a make-up test if evidence is presented to the instructor that the absence was due to personal illness or death in the immediate family. Absences authorized by the Vice President for Academic Affairs for official purposes (athletics, performing groups, student government, etc.) also entitle a student to make-up test privileges. Any absence from scheduled work must be covered by an excuse from the Vice President for Academic Affairs, the Student Health Service, or a doctor before the student is allowed to make up that work. Any exception to this rule must be arranged before the missed work! Each student is directly responsible to the individual faculty member for making up work missed due to excused absences. ALL make-up work must be completed within three days after returning to class. In order to receive credit in this course, a student must attend a minimum of 75% of the class meetings. Students in this class will be allowed no more than 7 absences, excused and unexcused. If a student exceeds the allowable number of absences, a grade of "F" will be assigned in the course. In order to be counted present, a student must arrive on time for the class and remain in class the entire time. When a student is tardy for class, it is the student's responsibility to talk to the faculty member about changing the recorded absence to a tardy. This must be done on the day that the tardy occurred. Failure to do so will result in a recorded absence. After the student has accumulated two tardies, the faculty member will not change the recorded absence to a tardy.
Classroom Policies

1. Do not use tobacco or eat in the classroom.
2. Do not bring guests, including children, to class.
3. Come to class on time.
4. Be prepared to start class at the scheduled time. Have paper, pencil, book, homework, etc. out and ready.
5. Do not ask to leave class early. Schedule any appointments at times that do not conflict with classroom time.
6. Calculator use is permitted on all homework assignments and tests.
7. Be sure to show all work on homework assignments and tests. No partial credit can be given if no work is shown.
8. Homework must be turned in when it is due. No late homework will be accepted.
9. Cheating and plagiarism are not tolerated. If it is established that a violation has occurred, the penalty will be a zero on the test, examination, or paper in question.
10. It is the responsibility of the individual student to inform the faculty member of any clinically diagnosed learning disability or other limiting disability that might in some way hinder the student's progress in this class. Reasonable accommodations are available upon request.
11. Pagers and cellular phones should be turned off and stored out of sight during class time.

Important Dates

Students who remain in the course after one week after the first test and then elect to drop the course will receive a grade of W if passing or a grade of F if failing the course at the time of the drop. A drop is not effective and complete until the drop slip has been signed by all parties designated and turned in to the Registrar's office. No course may be dropped after Friday, December 4. The final examination for this course is scheduled for Tuesday, December 8 at 3:00 pm. That is when it must be taken. If you plan to audit this course, you must notify the instructor by August 28. You will not be allowed to change your status in this class from credit to audit after this date.

Delta State University is committed to a policy of equal employment and educational opportunity. Delta State University does not discriminate on the basis of race, color, religion, national origin, sex, age, disability, or veteran status. This policy extends to all programs and activities supported by the University.

If a student has a disability that qualifies under the American with Disabilities Act and requires accommodation, he should contact Dr. Richard Houston, the Director of Counseling (Counseling Center; phone 846-4690) for information on appropriate policies and procedures.

Instructor: Dr. Paula Norris

Instructor's Office: Broom 253

Office Phone: 846-4515 E-mail: pnorris@deltastate.edu

Instructor's Office Hours:

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-9:50</td>
<td>9:25-10:40</td>
<td>9:00-9:50</td>
<td>9:25-10:40</td>
<td>9:00-9:50</td>
</tr>
<tr>
<td>11:00-11:25</td>
<td>1:30-3:30</td>
<td>11:00-11:25</td>
<td>1:30-3:30</td>
<td>11:00-11:25</td>
</tr>
</tbody>
</table>