Trigonometry (MTH 07-35)

CREDITS  1

COURSE DESCRIPTION
Math 07 presents Trigonometric functions, solving equations and graphing. Prerequisite: a placement for MTH 07 and Algebra I and II.

PREREQUISITES: A placement for MTH 07 and Algebra I and II.

COURSE MATERIAL

- Textbook: Great Lectures: Precalculus (CDs by thinkwell available in the bookstore). See Course Information I Part D for more information.
- Calculator: A scientific calculator is required. See Course Information I Part D for more information.

FACILITY HOURS
DE Testing Center Christiansburg Site
(Dublin - Ext. 4439) (Ext. 4222 or 4459)
Mon & Thurs  8:00 am - 9:00 pm M - Th  8:00 am - 9:00 pm
Tues, Wed, Fri  8:00 am - 5:00 pm Friday  8:00 am - 5:00 pm
Sunday  2:00 pm - 5:00 pm Saturday  8:30 am - 1:00 pm
(NO TESTS GIVEN WITHIN THE LAST HOUR OF CLOSING)

DATES TO REMEMBER
Last day to add without instructor approval ..................... Friday, August 27
Labor Day, College Closed ..................................... Monday, September 6
Last day to drop with full refund ............................... Monday, September 8
Last day to withdraw and receive a “W” ....................... Thursday, October 21
Testing Centers open 8 am-5 pm .......... Monday-Wednesday, Nov. 22-24
Thanksgiving Break ................................. *Thursday-Friday, November 25-26
*(Both the main campus and the Christiansburg site will be closed.)
Last day to submit DE work .............................. Monday, December 13
I. COURSE INFORMATION

Prepared By: Pablo Chalmeta, Fall 2004  Approved By: Ms. Pat Huber

Reviewed By: ____________________________________________  ____________________________________________

A. INTRODUCTION

This is Distance Education course designed specifically for those students whose learning styles are best served by providing instructional opportunities beyond the traditional classroom setting.

This class presents Trigonometric functions, solving equations and graphing.

B. COURSE OBJECTIVES

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

In this class you will be learning about Trigonometry. The examples are designed to show the applications of the material and show that the math you are learning can be useful. This course is designed to give you the Trigonometry skills you need to successfully complete Mth 175 (Calculus of One Variable).

You will complete MTH 07 using the Precalculus and Calculus software called Great Lectures: Precalculus. The curriculum from Thinkwell is a comprehensive, individualized program. It has been designed to help you advance at your own speed for understanding and applying the material. You will be able to progress at your own rate through the software to complete the objectives for the course unless your instructor tells you otherwise. Within each topic you see lessons. You should complete and pass each lesson in the order listed in the attached “Assignment Schedule.” This Assignment Schedule is intended to help you monitor and record your progress.

C. COURSE CONTENT

1. Use degree and radian units to measure angles.
2. Place an angle in standard position on the axes.
3. Determine the reference angle for an angle in standard position.
4. Define the trigonometric functions.
5. Evaluate the trigonometric functional values for an angle in standard position.
6. Apply the inverse trigonometric functions to solve for particular angles.
7. Define the circular functions.
8. Graph the trigonometric functions.
D. **COURSE MATERIALS**

**Textbook:** There is no textbook for this class in the traditional sense. All of the lectures, notes and homework problems can be found either on the CDs or on the Thinkwell website (http://www.thinkwell.com). The CDs contain multimedia presentations which are the instructional portion of the course. They cover both theory and examples. Once you have watched the lecture you should attempt the homework problems.

Due to the duplicate nature of this material with that found in Mth 271 we will be following the same schedule as is found there. There are two sets of CDs for the class. One is titled “Great Lectures: Precalculus” and the other “Great Lectures: Calculus 1”. Due to the nature of the Thinkwell website it is necessary to set up two courses, one for each set of CDs. BE SURE TO START IN THE COURSE TITLED "Precalculus, MATH 271 - Fall 2004". You will only need to set up one account in the Thinkwell database once but you will need to register for both "Precalculus, MATH 271 - Fall 2004" and "Applied Calculus, MATH 271 - Fall 2004".

**Testing:** Tests may be taken in the DE Testing Center in Martin Hall, at the Christiansburg Site, or through an approved proctor. Please check II. **Course Schedule** in this course plan and take the tests on or before the scheduled dates to remain on track for successful completion of this course. **Refer to the Testing Information folder in Blackboard for more information about on and off campus testing.**

Graded tests will be kept in the student’s folder in the DE Testing Center or at the Christiansburg Site depending on where the student requested it be housed. Students can contact their instructor through a variety of avenues: phone, voice mail, E-mail, mail, face-to-face during office hours or by appointment.

**Homework:** Giving your best effort on homework is the single best thing you can do to help you learn mathematics.

The Tutoring Connection on the main campus also has qualified tutors who can work with you on a regular basis.

**Calculator:** A scientific calculator is required. Students may wish to purchase and use a graphing, menu-driven calculator, specifically a Texas Instrument T183 or higher. This will carry you through higher level courses.

E. **GRADING/EVALUATION**

The grade for this course will be derived from two sources:

- Two written tests 60%
- Final Exam 40%

**NOTE:**
If the school is closed on a test day, then the test will be due on the first day the school opens.
Grading Scale:
Letter grades will be assigned based on your final percentage as follows:

- 90 – 100 = A
- 80 – 89 = B
- 70 – 79 = C
- 60 – 69 = D
- 0 – 57 = F

W = Withdrawal: The college Withdrawal Policy will be followed

Note: I do not curve grades. I do not “give” grades. You earn what you get, so plan to work accordingly.

F. WITHDRAWAL POLICY

Student Initiated Withdrawal
A student may drop or withdraw from a class without academic penalty during the first sixty percent (60%) of a session. For purposes of enrollment reporting, the following procedures apply:

a. If a student withdraws from a class prior to the termination of the add/drop period for the session, the student will be removed from the class roll and no grade will be awarded.

b. After the add/drop period, but prior to completion of sixty percent (60%) of a session, a student who withdraws or is withdrawn from a course will be assigned a grade of "W." A grade of “W” implies that the student was making satisfactory progress in the class at the time of withdrawal, that the withdrawal was officially made before the deadline published in the college calendar, or that the student was administratively transferred to a different program.

c. After that time, if a student withdraws from a class, a grade of "F" will be assigned. Exceptions to this policy may be made under documented mitigating circumstances if the student was passing the course at the last date of attendance.

A retroactive grade of “W” may be awarded only if the student would have been eligible under the previously stated policy to receive a “W” on the last date of class attendance. The last date of attendance for a distance education course will be the last date that work was submitted.

Late withdrawal appeals will be revised and a decision made by the Coordinator of Student Services.

Instructor Initiated Withdrawal
Students who have not attended class or picked up/accessed distance learning materials by the last day to drop the class and receive a refund must be deleted by the instructor during the following week. No refund will be applicable.

If you are not passing the class at the drop date, I will withdraw you from the class.
II. COURSE SCHEDULE

The Distance Education Program is designed for students to adapt the course requirements to individual schedules taking into consideration any penalties resulting from missed deadlines. If your course has deadlines with penalties they are listed below. Also listed below is the schedule of dates and work to be completed for this course.

<table>
<thead>
<tr>
<th>DEADLINE</th>
<th>ASSIGNMENT/TEST</th>
<th>PENALTY</th>
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<tr>
<td>September 10</td>
<td>Test 1</td>
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<tr>
<td>October 1</td>
<td>Test 2</td>
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<tr>
<td>December 13</td>
<td>Final Exam</td>
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