Del Mar College - Mathematics Department
SYLLABUS for the Online
Trigonometry - Math 1316.709 – Spring 2012

Main Office Location: MC-109
Main Office Phone : 361-698-1238
DMC Email Address for Chair: adavid@delmar.edu

INSTRUCTOR: Antonio David
OFFICE: MC Room 109B
OFFICE HOURS: Monday - Thursday 2 - 3 pm
PHONE: (361) 698-1987
EMAIL ADDRESS: adavid@delmar.edu

Course
Trigonometry Math 1316 - 709 – Fundamentals of Trigonometry, identities, height and distance, equations involving trigonometric functions, solutions of triangles, area, vectors and their basic applications and inverse functions: Satisfactory score on college admission test or Math 0373 (Math 1314 and 1316 may be taken concurrently). Assessment levels: R3, E1, M3.

ACCESS CODE (Required)
The access code for MyMathLab is required. The code can be purchased at any of the bookstores that sell our textbooks or online at (www.coursecompass.com)

This Trigonometry online course will utilize the “MyMathLab” computer program. This program is Internet based so internet access is required.

Basic Computer Requirements for MyMathLab:
Internet connection: Cable/DSL, T1, or other high-speed for multimedia content,
56k modem (minimum),
64 MB RAM memory (minimum),
1024x768 or higher monitor resolution
These are minimum requirements, anything better will operate more efficiently. If you are operating minimum requirements things may take a little longer to load, so be patient.

You may also use the computers in the Math Learning Center or in the Library during their normal working hours. If you need TECH SUPPORT for MyMathLab, call 1 - 800 - 677 - 6337. Unfortunately, I simply cannot help you with all technical problems. If you have a problem that they cannot resolve, contact me. Also, take advantage of the MathXL tutorial. It will teach you how to put answers into the program properly. If you do not have reliable Internet access, do not take this online class.

Text and Solutions Manual (optional)
Trigonometry by Lial, Hornsby, and Schneider 9th edition

Several configurations of the text and/or access code kits are available, but only the access code is required. The program works on both PC’s and Mac’s and the web browsers of choice are Internet Explorer for PC and Fire Fox for Mac.
Other materials
You will need a scientific calculator specifically a Texas Instruments 83 or 84 sires Graphing Calculator.
(You will be able to use a graphing calculator on any of the regular online tests/quizzes and the proctored Midterm and Final Exams)

GRADING POLICY:

Homework, online: 15%
Students will be required to work daily homework assignments, including reviews of the regular online tests. Homework assignments will be done online using MyMathLab. It’s possible to rework any homework assignment even after the due date and receive the better grade. The average of the homework assignments and reviews for the regular online tests counts as 15% of your grade. The last day to work on the homework is Dec. 15, 2011 by 11:59 pm. I am not responsible for technical problems that occur.

3 – Regular Quizzes, online: 15%

• There will be 3 quizzes, one before each major exam except the final exam.
• These quizzes will be administered online using MyMathLab.
• You will be given 3 attempts on each quiz.
• MyMathLab will keep the better grade.
• You will be given a 3 day window for each quiz.
• Once started, you can’t go back and re-work past quiz problems.
• Online quiz dates are easily identified on the course calendar.
• The regular online quizzes are limited to 80 minutes with no more than 25 questions.
• You are not allowed to take quizzes after the expiration date.
• The three online quizzes counts as 15% of your grade (5% for each quiz).

2 - Regular Tests, online: 20%

• There will be two regular tests given during the semester.
• These tests will be administered online using MyMathLab.
• You will be given three chances to take the regular online tests.
• MyMathLab will keep the better grade.
• You will have a five-day window to take these online tests.
• Once started, you can’t go back and re-work past test problems.
• Online test dates are easily identified on the course calendar.
• The regular online tests are limited to 100 minutes with no more than 35 questions.
• You are not allowed to take tests after the expiration date.
• The two regular online tests counts as 20% of your grade (that is 10% each).

• There will be reviews provided to give you an idea of what to expect on the tests. This means you will be able to study the review well before each exam. These reviews are part of your homework grade. **As a matter of fact, you must attempt the review for each test or the program will not allow you to take the test.** Remember, the review is designed to help you study for upcoming tests. It is not a substitute for course material found in your textbook or online. Since the tests are given online, you are allowed to use your notes and a graphing calculator.

• **I am not responsible for technical problems that occur.**

**Midterm Exam, proctored: 20%**

There will be a proctored Midterm Exam that must be taken on campus at the DMC Testing Center. The following applies to the midterm exam:

• You’ll be given 2.5 hours to complete the test.

• The Midterm will not include material from exam 1.

• There will be an online review for this exam like the other and it like the other reviews will count as a homework grade.

• You must attempt the review to gain access to this exam.

• The Midterm **is not** open note or book.

• Graphing calculators are allowed.

• You will be given 2 opportunities to take this exam during the week allotted.

• The Midterm Exam counts as 20% of your overall grade.

• All of the rules that apply to the quizzes and regular tests apply to the midterm exam.

**Final, proctored: 30%**

The following facts apply to the Final Exam:

• There will be a proctored Final Exam that must be taken on campus at the DMC Testing Center.

• The exam will be a comprehensive test over all the material covered in the course.

• All of the previous reviews are study tools for the final exam.

• The Final **is not** open note or book.

• Graphing calculators are allowed.

• The Final Exam must be taken during Final Exam week.

• You will be given 2 opportunities to take the final exam during the time allotted.

• The Final Exam counts as 30% of your grade.

• All of the rules that apply to the quizzes and regular tests apply to the Final exam.

• **YOU MUST MAKE AT LEAST 50% ON THE FINAL EXAM TO PASS THE COURSE.**
Why do I require students to make at least 50% on the Final Exam? I am allowing you to take 2 of your 4 exams in an unsecure environment. I want to make sure that the person that registered for the class is actually taking the exams. For many students this is a stumbling block. But unfortunately, this rule is important to online learning and will not be modified.

**GRADING SYSTEM:** An average of 90 – 100 is an A
80 – 89 is a B
70 – 79 is a C
60 – 69 is a D
and anything below a 60 is an F

The following Pie Chart describes the graded assignments in your class. The total number of points available for all assignments is 1525. For example, of those 1525 total points, 453 represent your Final Exam. This is approximately 30% of the total points available. The Midterm Exam has a value of approximately 302 points or 20% of the total points. All graded assignments are identified in the Pie Chart below.

**Managing Incompletes**

The term “Managing Incompletes” describes the process of assigning “Zero” to all missed assignments. For some of you, this will drastically affect your overall average.

After “0” is assigned by the program, you will still have access to all homework assignments until the last official day of class. When you complete an un-attempted homework assignment, the new grade will replace the zero. You’re not allowed to rework quizzes or exams.
You are responsible for looking over your course calendar. There is a dedicated button for the Course Calendar or it can be found by clicking “Do Homework” and looking to the upper right hand corner of the screen. The icon, “View Course Calendar” gives you a weekly and monthly view of all assignments.

TUTORING SERVICES:
Math Learning Center – CB 116
Free tutoring is available in the Math Learning Center. No appointment is necessary. The hours of operation are provided below.

The tutoring staff consists of people with (or working toward) a Masters or Bachelors Degrees in Math, Engineering, Computer Programming, etc.; and current DMC students, outstanding in mathematics. Many of the degreed staff have years of experience in teaching and/or tutoring mathematics.

Student Success Center - St. Claire Bldg., Room 111
They offer free one-on-one tutoring. This walk-in tutoring service is located on the first floor of the St. Clair Science building. Direct any questions to Veronica Gutierrez by at 698 – 2267. The math tutoring staff consists of DMC students, who have made a B or better in the math course that they are tutoring.

Pearson Education - Math Tutor Center
Pearson Education’s tutoring center offers free one-on-one tutoring. The feedback is almost instantaneous. Their math tutoring staff consists of qualified college instructors. Visit "www.aw-bc.com/tutorcenter" for available tutoring services or call for help toll-free at "1 888 777 0463", Sunday through Thursday 5 PM - Midnight (Eastern Time). This tutoring service comes free with the purchase of a MyMathLab code. To receive tutoring through the AW Math Tutor Center, you need to register by following the process outlined below.

Step 1 To register with the tutor center go to "www.pearsonservices.com" and click on "Mathematics".
Step 2 Choose "Registration" from the menu at the top on the far right.
Step 3 Fill out the form and wait for confirmation to be sent to your email address.
Step 4 Once you’ve registered, you can then click on “Ask My Instructor” in the Homework Menu and when prompted, type in tutor@pearson.com. This sends your problem directly to the Tutor Center and not to the instructor. Doing so will give you instant access to homework help.

OFFICE OF STUDENT SERVICES:
Students requesting disability accommodations or information are encouraged to contact the Office of Special Services in the Harvin Center Room 188 at 698 – 1298.
CLASS OVERVIEW
This is an internet based course. Your ability to access the Internet is required. I am not responsible for technical problems that occur. You will be given three opportunities to take each regular online test and approximately 5 days per exam. In that time, you are required to find a reliable Internet ready computer. You may use the computers in the Math Learning Center located in the Cole’s Building or in the Library, but I am NOT responsible for technical problems that occur on those computers either. “My computer is not working”, is not an excuse that will allow me to let you take the exam after the expiration date or have an extra opportunity to take a test. If you do not have reliable Internet access, do not take this online class.

Highlights, important hints and test taking instructions
• A total of 4 tests, including the midterm and final exams, will be given
• The 2 regular online tests are timed (120 minutes each)
• The midterm exam is 180 minutes and must be taken on campus at the DMC Testing Center
• The final exam is 200 minutes and must be taken on campus at the DMC Testing Center
• Review sheets are available before each exam. The Final Exam review is a combination of the three prior reviews.
• Review sheets must be attempted in order to access each test.
• Three chances are allowed for regular and proctored exams.
• Homework and the reviews for the regular online tests are counted as part of the grade
• The average of the 2 regular online tests counts 20% of your overall grade. (10% each)
• The Midterm and Final exams count a total of 50%
• YOU MUST MAKE AT LEAST 50% ON THE FINAL EXAM TO PASS THE COURSE
• I will manage incompletes regularly throughout the term.
• You’re given a five day window to take tests 1, 2, and 3 and three days to take each quiz. The Final exam is offered during the entire Finals week.
• I am not responsible for any equipment failure
• Reliable machines can be found in the Math Learning Center in the Coles Building or in the Library, but I’m not responsible for their failure either.
• Technical support number for MyMathLab is 1-800-677-6337
• Homework can be reworked as many times as you like
• You are responsible for looking over your course calendar
• Please download all necessary plug-ins. You will not be able to see the homework or test problems without all plug-ins in place
• I can be reached by phone on M, W from 9 - 10 am, 2 - 3 pm and on T, TR from 3:30-4:30 pm.
• My office number is (361) 698 - 1987 and my email is adavid@delmar.edu
• If you know of anyone that has not registered or is having trouble registering, please have them contact me
• Do not use the email program found within Black Board. If you need to contact me, please use adavid@delmar.edu
• Take advantage of the Math Learning Center or the Student Success for tutoring
• The MyMathLab program allows you to email your instructor. When you email me, it takes approximately 3 days to get back to you.
• Take advantage of the AW Tutor Center, their number is 1-888-777-0463.
ACCESS TO COMPUTERS:

Math Learning Center – CB 116
Free access to computers is available in the Math Learning Center. No appointment is necessary. The hours of operation for the Fall/Spring semesters are:

M – Th  8:00 a.m. – 8:00 p.m.
Fri.  8:00 a.m. – 1:00 p.m.
Sat.  10:00 a.m. – 3:00 p.m.

For more information call 361 - 698 - 1579.

Student Success Center - St. Claire Bldg, Room 120.
Free access to computers is available in the Student Success Center. The hours of operation for the Fall/Spring semesters are:

M – Th  8:00 a.m. – 7:00 p.m.
Fri.  8:00 a.m. – 3:00 p.m.
Sat.  9:00 a.m. – 2:00 p.m.

For more information call 361 - 698 - 2267.

William F. White, Jr. Library, 1st floor.
Free access to computers is available in the Library at the Student Technology Center. The hours of operation for the Fall/Spring semesters are:

M – Th  7:30 a.m. – 10:00 p.m.
Fri.  7:30 a.m. – 5:00 p.m.
Sun.  12:00 noon – 8:00 p.m.

For more information call 361 - 698 - 1991.

NOTE: All hours listed above are subject to change.
### Textbook Sections and Suggested Exercises

<table>
<thead>
<tr>
<th>Section</th>
<th>Textbook Sections</th>
<th>Suggested Textbook Exercises</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Angles</td>
<td>1.1 pg 7 #'s 1,4,9,11,12,13,14,16,19,33,41,47,55,59,62,103,106</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.2 pg 16 #'s 3,7,11,13,25,26,30,35,51,54,57,59,63,64,71</td>
</tr>
<tr>
<td>1.2</td>
<td>Angle Relationships and Similar Triangles</td>
<td>1.2 pg 16 #'s 3,7,11,13,25,26,30,35,51,54,57,59,63,64,71</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.3 pg 27 #'s 1,2,5,8,12,25,28,29,34,43,45,49,50,55,59,67,65,66</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.4 Using the Definitions of the Trigonometric Functions</td>
</tr>
<tr>
<td>1.3</td>
<td>Trigonometric Functions</td>
<td>1.3 pg 27 #'s 1,2,5,8,12,25,28,29,34,43,45,49,50,55,59,67,65,66</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.4 pg 37 #'s 1,3,6,9,10,61,62,65,66,71,73,76</td>
</tr>
<tr>
<td>1.4</td>
<td>Using the Definitions of the Trigonometric Functions</td>
<td>1.4 pg 37 #'s 1,3,6,9,10,61,62,65,66,71,73,76</td>
</tr>
<tr>
<td>2.1</td>
<td>Trigonometric Functions of Acute Angles</td>
<td>2.1 pg 55 #'s 1,2,11,14,27,29,30,45,46,51,58,60,76,79</td>
</tr>
<tr>
<td>2.2</td>
<td>Trigonometric Functions of Non-Acute Angles</td>
<td>2.2 pg 63 #'s 10-17,19,20,21,24,27,31</td>
</tr>
<tr>
<td>2.3</td>
<td>Finding Trigonometric Function Values Using a Calculator</td>
<td>2.3 pg 68 #'s 5,7,8,11,14,23,24,27,28,31,59,60,63,69</td>
</tr>
<tr>
<td>2.4</td>
<td>Solving Right Triangles</td>
<td>2.4 pg 78 #'s 1,9,11,13,16,21,25,28,33,41,43,46,47,49,50,51,52,53</td>
</tr>
<tr>
<td>2.5</td>
<td>Further Applications of Right Triangles</td>
<td>2.5 pg 87 #'s 15,17,19,21,27,29,31,35,36</td>
</tr>
<tr>
<td>3.1</td>
<td>Radian Measure</td>
<td>3.1 pg 106 #'s 7,8,11,14,25,30,37,43,46,53,58,63,67,72,77,82</td>
</tr>
<tr>
<td>3.2</td>
<td>Applications of Radian Measure</td>
<td>3.2 pg 113 #'s 1,5,8,11,15,21,23,27,31,33,39,42,51</td>
</tr>
<tr>
<td>3.3</td>
<td>The Unit Circle and Circular Functions</td>
<td>3.3 pg 126 #'s 7-18,23,24,25,28,52,55,71,72</td>
</tr>
<tr>
<td>3.4</td>
<td>Linear and Angular Speed</td>
<td>3.4 pg 131 #'s 3,5,9,13,18,19,22,29,34,35,37,38,39,40</td>
</tr>
<tr>
<td>4.1</td>
<td>Graphs of the Sine and Cosine Functions</td>
<td>4.1 pg 153 #'s 13,14,17,20,23,27,30,31,32</td>
</tr>
<tr>
<td>4.2</td>
<td>Translations of the Graphs of the Sine and Cosine Functions</td>
<td>4.2 pg 166 #'s 33,34,37,38,39,40,41,45,46</td>
</tr>
<tr>
<td>4.3</td>
<td>Graphs of the Tangent and Cotangent Functions</td>
<td>4.3 pg 174 #'s 7,8,13,14,15,19,20,21,22</td>
</tr>
<tr>
<td>4.4</td>
<td>Graphs of the Secant and Cosecant Functions</td>
<td>4.4 pg 183 #'s 5,6,7,8,11,13,14</td>
</tr>
<tr>
<td>5.1</td>
<td>Fundamental Identities</td>
<td>5.1 pg 203 #'s 7,8,11,25,27,31,53,56,57,61,62,65,66</td>
</tr>
<tr>
<td>5.2</td>
<td>Verifying Trigonometric Identities</td>
<td>5.2 pg 212 #'s 37,43,45,49,51,52,53,56,59,61,65,69,73</td>
</tr>
<tr>
<td>5.3</td>
<td>Sum and Difference Identities for Cosine</td>
<td>5.3 pg 222 #'s 5,7,9,47,48,49,51</td>
</tr>
<tr>
<td>5.4</td>
<td>Sum and Difference Identities for Sine and Tangent</td>
<td>5.4 pg 229 #'s 9,10,13,17,19,41,42,43,45,47,51,57,60,61,63</td>
</tr>
<tr>
<td>5.5</td>
<td>Double-Angle Identities</td>
<td>5.5 pg 239 #'s 7,9,13,17,21,29,31,37,39,43,47,51,55,59,61,65</td>
</tr>
<tr>
<td>5.6</td>
<td>Half-Angle Identities</td>
<td>5.6 pg 245 #'s 11,12,15,19,21,23,25,27,49,51,53,55</td>
</tr>
<tr>
<td>Chapter</td>
<td>Section</td>
<td>Pages</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
<td>-------</td>
</tr>
<tr>
<td>6.1</td>
<td>Inverse Circular Functions</td>
<td>270</td>
</tr>
<tr>
<td>6.2</td>
<td>Trigonometric Equations I</td>
<td>278</td>
</tr>
<tr>
<td>7.1</td>
<td>Oblique Triangles and the Law of Sines</td>
<td>308</td>
</tr>
<tr>
<td>7.2</td>
<td>The Ambiguous Case of the Law of Sines</td>
<td>318</td>
</tr>
<tr>
<td>7.3</td>
<td>The Law of Cosines</td>
<td>327</td>
</tr>
<tr>
<td>7.4</td>
<td>Vectors and the Dot Product</td>
<td>340</td>
</tr>
</tbody>
</table>
Math Learning Center
www.delmar.edu/math/mlc.html
CB 116 • East Campus
(361) 698-1579
• Free tutoring available for your mathematics classes
• Free workshops
• Handouts
• Computer access to MyMathLab and video lectures online

Fall/Spring Hours
Monday-Thursday: 8am - 8pm
Friday: 8am - 1pm
Saturday: 10am - 3pm

Summer Hours
Monday-Thursday: 8am - 8pm
Saturday: 10am - 3pm

MyMathLab
Available online:
Instructional aid that offers
• Lecture videos
• Animations
• Hyperlinked textbook along with many other help features
• Practice problems
• Practice tests

Access the online service by purchasing a code at www.coursecompass.com or at any of the bookstores that sell textbooks for Del Mar College.

Use the course ID found here: www.delmar.edu/math/MLC/CourseCompass.html

COLLEGE POLICIES: http://hb2504.delmar.edu/AcademicClassroomPolicy.pdf