

MA105 – Introduction to Trigonometry Distance Learning

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Email is the preferred method of communication and all email will be answered within 24 hours, if not sooner.

Course Information

- This is a web-based Distance Learning course worth 1 semester hour. The course only runs half a semester (5 weeks), so it is imperative that you do not fall behind.
- Topics include an examination of right triangle trigonometry and applications, as well as graphs and equations involving sine, cosine, and tangent and related basic concepts.
- The prerequisite for MA105 is completion or concurrent enrollment in MA103, appropriate score on mathematics assessment test, or consent of department.
- Instruction for this course is provided through a series of video shows available at www.montgomerycollege.edu/trigonometry, under “Class Videos” and “Yagodich”. Be sure to take notes while watching the shows. After watching the video lecture, complete the corresponding homework on MathXL at www.mathxl.com. The schedule of videos and homework is listed at the end of the syllabus.

Required Text and Supplies

- There is no required textbook for the class.
- Homework is completed using the on-line software MathXL. Each student is responsible for purchasing this software and enrolling in the class “MA105 – (semester)- Distance Learning – Yagodich”. Please choose the correct semester and session, since I may have more than one MA105 section running concurrently. The software can be purchased from the MC bookstore or with a credit card directly from www.mathxl.com. Direct purchase from www.mathxl.com is generally less expensive than purchasing from the bookstore. When enrolling in the class, the zip code of the college is required: use the Germantown zip code 20876. Additional instructions on purchasing and using the software is available in the orientation video for the class. Textbook pages are available through MathXL
- If a student is already using MathXL in a concurrent MA103 class – that is, a student is taking MA105 and MA103 at the **same time** – a separate subscription **must** be purchased for this course using a different user name. MyMathLab subscriptions cannot be used for this class; it must be using MathXL.

- Important class announcements will be posted on MathXL on a regular basis. In addition, email will be used as the official form communication with students. Students are required to check both MathXL and email regularly, at least 3 times a week, during the duration of this class.
- A graphing calculator is required for this course as well as subsequent mathematics courses. The videos use the TI 83 or TI 83+. Calculators more advanced than TI 86 are not permitted. No other electronic device, including cell phones, can be used as a calculator during tests.

Grading

- Homework
 - Homework is key to mastering the skills in this class. Homework is due before each exam. Since MathXL allows students to redo all homework problems, getting 100% in all homework assignments is possible and **highly** encouraged. Practice tests will also be sent via email and posted on MyMC to assist students in preparing for the exams. Since the exams will be done on paper, be sure to complete the additional practice exam.
 - All students must enroll in MathXL by the end of the first week of class or else they will be dropped from the class. There are only 5 weeks in this class, so there is not time to begin late.
- Tests
 - There will be two 50-minute tests given at either the Rockville or Germantown Assessment Centers. Prior to the first exam, students must email with their preferred testing location. Information on the Centers can be found at <http://www.montgomerycollege.edu/Departments/AssessCtr/index.html>. Students **must** bring their student ID to take the exam and call ahead to make an appointment. Students must take the exams during the week scheduled.

Germantown	110 Sciences & Applied Studies Bldg. (SA)	240-567-7739
Rockville	14 Campus Center (CC) (walk-in available)	240-567-7459

- The first exam will cover MathXL assignments 1-4. The second test covers MathXL assignments 5-8 . All material presented in the videos, in the homework, and on practice exams will be represented on the exams.
- Scoring
 - Your grade will be based on the following:
 - Homework (8 total) 30%
 - Exam 1 35%
 - Exam 2 35%
 - Your final course grade will be based on the following percentages:A (90-100%), B (80-89%), C (70-79%), D (60-69%), or F (<60%).

General Policies

- Academic Honesty
 - See the Student Code of Conduct, Section VIII: Academic Dishonesty in the Student Handbook.
- Support Services
 - There are Math Learning Centers located on all three campuses, as well as technology labs which have computers available for student use for MathXL. Full tutoring and computer support is available to students in all mathematic courses, including Distance Learning classes.
 - Students who need accommodation due to a disability should see me during office hours. A letter from Disability Support Services authorizing your accommodations will be needed. Any student who may need assistance in the event of an emergency evacuation must identify themselves to the Disability Support Services Office; guidelines for emergency evacuations for individuals with disabilities are found at www.montgomerycollege.edu/dss/evacprocedures.htm.
- Cancellation of Class
 - In the event of inclement weather or other emergency, please check the college web site at <http://www.montgomerycollege.edu>, call the Response Center at 301.279.5000, or tune in to local radio or television stations for current information. **Please note that Montgomery College does not follow MCPS when it comes to school closings.**

Videos	Coverage	MathXL Homework Assignment
1 – 10	Basics of all angles, Introduction to Trig Functions, MathXL example, Trig functions of Important Angles, Using TI 83 Plus, DMS vs. Radian Measure, Reciprocal & Complementary Trig Functions, Applications of Trigonometry	Homework # 1
11 – 15	General Angle Basics, Angles in Standard Position, Signs of Trig Functions in Different Quadrants, Trig Functions Given a Point (x,y), Trig Functions for Any Angle	Homework# 2
16 – 19	Introduction to Radians and Conversion Between Radians and Degrees, Arc Length	Homework # 3
20 – 22	The Unit Circle, Trig Functions for Any Angle in Radians	Homework # 4
		Practice Test One
Test	Test 1	
23 – 29	Basic Trig Graphs, Transformations of Basic Trig Graphs	Homework # 5
30 – 34	Basic Trig Identities and Algebraic Manipulations of Trig Functions	Homework # 6
35 – 36	Providing General Trig Identities, Solving Trig Equations	Homework # 7
37 - 39	The Sum & Difference Trig Identities	Homework # 8
		Practice Test Two
Test	Test 2	