

# MAT182 TR 11:30 a.m. – 12:45 p.m. SYLLABUS

## COURSE

MAT182 – Plane Trigonometry – Section 22568 – 3 Credits – Spring 2018

## INSTRUCTOR

Brian Bird – GCC North A 122 – (623) 888-7191 – brian.bird@gccaz.edu

## TIME and LOCATION

Tuesdays and Thursdays 11:30 a.m. – 12:45 p.m. January 16<sup>th</sup> – May 3<sup>rd</sup> GCC North A 105

**Note:** No class on March 13<sup>th</sup> and 15<sup>th</sup> due to Spring Break

## COURSE DESCRIPTION

A study of measures of angles, properties of graphs of trigonometric functions, fundamental identities, addition and half-angle formulas, inverse trigonometric functions, solutions of trigonometric equations, complex numbers and properties of triangle solution. May receive credit for only one of the following: MAT182 or MAT187. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or equivalent, or concurrent registration in MAT150, or MAT151, MAT152, or satisfactory score on District placement exam.

**Note:** Meeting the prerequisites does not guarantee your success in this class. You need to bring algebra skills and a strong work ethic to the class in order to be successful. The Federal Credit Hour Definition requires “a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit”. We will not have time to answer questions regarding algebra and arithmetic – please don’t interpret this as me being impatient, rude or uncaring.

## REQUIRED BOOK via MyMathLab (MML)

You will need immediate access to MML. This can be accomplished in several ways that will be discussed the first day of class. Prices range from \$40 to well over \$100. There is a 14 day free trial period if you don’t currently have the funds. The course is based on the book: *College Algebra and Trigonometry* by Lial et al., 6<sup>th</sup> Edition

## REQUIRED CALCULATOR

A TI-83 Plus (or equivalent) is strongly recommended. They cost approximately \$90. A limited number of graphing calculators are available for lease from the college for \$20. Cell phone calculators are not permitted. Please see the instructor if you have any questions.

## COMPETENCIES (<https://asa.maricopa.edu/departments/center-for-curriculum-transfer-articulation>)

1. Identify a trigonometric function.
2. Use the definitions and properties of trigonometric functions to solve problems.
3. Find the length of an arc.
4. Determine the area of a sector.
5. Find linear and angular velocity.
6. Determine the graph and period of a trigonometric function.
7. Evaluate inverse trigonometric functions.
8. Verify trigonometric identities.
9. Solve trigonometric equations.
10. Use trigonometric formulas to solve application problems.
11. Find  $n^{\text{th}}$  roots of complex numbers.

## ATTENDANCE POLICY

**Attendance is very important.** Quiz, test and final questions will be based on what we cover in class. If you are unable to make class, please e-mail me (in advance if possible). **If you have excessive absences (based on my discretion), you may be withdrawn with a “Y”** (withdrawn failing which is counted as an “F” toward your GPA forever).

**Note:** Coming in late or leaving early counts as an absence. Missing the first week, missing 4 classes, missing two exams, and missing the Final are examples of what is considered excessive.

## COMMUNICATION

I will be sending emails to your official school address and the address you enter in MML. Please check these regularly as you will be responsible for the content. If you don’t want to check your school email address, then forward it to an address that you will check. Refer to <http://www2.gccaz.edu/technology-help/student-email> for further information.

## GRADING

### ONLINE HOMEWORK 0%

Homework will be assigned via MML but it does NOT count towards this category and might not count at all. However, it is **highly recommended** to **complete and understand** the homework. **Don't rely on the help features** to get through the homework.

### QUIZZES/ATTENDANCE/GROUP WORK 10%

Occasionally quizzes will be given to assess important topics. Quiz problems will be similar to problems presented in class and homework assignments. There will be a strong correlation between quiz frequency/difficulty and student effort/attitude. Occasionally there will be attendance quizzes. Occasionally there will be group work assignments. There will be no makeup in-class work. Extra Credit will be offered and included in this category. It is strongly suggested to take advantage of Extra Credit opportunities. Extra Credit will be capped at 5% of Semester Grade

### TESTS 70%

There will be four tests consisting of problems similar to problems presented in class, quizzes and homework assignments. Test 1 will cover Chapter 5. Test 2 will cover Chapter 6. Test 3 will cover Chapter 7. Test 4 will cover Chapter 8. There will be no formal test reviews, so take good notes and pay attention. A cheat sheet and calculator will be allowed. There will be no makeup tests.

### FINAL 20%

The Final will be Tuesday May 8<sup>th</sup> **11:00 a.m.** – 12:50 p.m. There will be no makeup final. The final will be cumulative. There will be no formal final review, so keep your old tests and quizzes to study from. A cheat sheet and calculator will be allowed. In lieu of the final, students may have their MML average homework score count provided that it is higher than 90% and their test average is higher than 70%. This will be discussed in detail during the first day of class.

### INDIVIDUAL PROBLEMS

To earn points, you must show the work. I cannot read your mind and can only grade your knowledge by what I see on paper. Show the set-up, work and units as appropriate. Box or circle your answers.

### SEMESTER GRADE

**Grades are earned and are not awarded.** The following scale can be used to determine your grade:

A = 90 – 100%    B = 78 – 89%    C = **66** – 77%    D = 50 – 65%    F = 0 – 49%

## NOTES and DISCUSSION ITEMS

1. Course content may vary from this outline to meet the needs of this particular group
2. Syllabus may be changed at any time at the discretion of the instructor with verbal notice
3. Withdrawals are not automatic – see instructor. You may be withdrawn with a “Y” (withdrawn failing which is counted as an “F” toward your GPA forever) after the deadline (**Monday March 5<sup>th</sup> – last day to withdraw without the instructor's signature**) if you don't reach an agreement with the instructor.
4. College Catalog [www.gccaz.edu/gcc-catalog](http://www.gccaz.edu/gcc-catalog) and Student Handbook <http://www.gccaz.edu/student-life/office-student-life/student-handbook> Policies
5. Food and Drink Policy
6. Grievance (i.e. complaining) Policy
7. Behavior Policy (respect, one person talking at a time, **cell phones quiet and away**, etc.). If you are disrupting the learning environment (based on my discretion), you may be asked to leave class and reported to the appropriate Dean.
8. Classroom Atmosphere Policy (engage, ask questions, share ideas, etc.). Be prepared to be called on. Be prepared for my sense of humor which includes math jokes and sarcasm.
9. Cheating and Plagiarism Policy (1<sup>st</sup> offense assessment failure, 2<sup>nd</sup> offense course withdrawal with grade of “Y”)
10. Special Needs. If you have a documented disability, including a learning disability, and would like to discuss possible accommodations, please contact the GCC Disabilities Resources and Services office at 623.845.3080 or email [drsfrontdesk@gccaz.edu](mailto:drsfrontdesk@gccaz.edu).
11. Getting Help

**\*\*\* Trig is different than Algebra (what you are used to) and you will need to adapt to be successful \*\*\***

## OUTLINE

<b>Tuesday</b>	<b>Thursday</b>
1/16 Syllabus Review Introductions	1/18 Start Chap 5
1/23	1/25
1/30	2/1
2/6*	2/8 Start Chap 6
2/13	2/15
2/20	2/22
2/27	3/1*
3/6 Start Chap 7	3/8
Spring Break	Spring Break
3/20	3/22
3/27 Happy B-Day Mr. Bird!	3/29
4/3	4/5
4/10*	4/12 Start Chap 8
4/17	4/19
4/24	4/26
5/1*	5/3 Review – Study!!!
5/8 Final <b>11:00</b> a.m. – 12:50 p.m. Good Luck!!!	

\* indicates planned test day

## BRIAN BIRD'S SCHEDULE

Time	Monday	Tuesday	Wednesday	Thursday	Friday*
7:00					
7:30					
8:00	<b>Office Hours*</b> <i>A 122 My Office</i>	<b>Office Hours*</b> <i>A 122 My Office</i>	<b>Office Hours*</b> <i>A 122 My Office</i>	<b>Office Hours*</b> <i>A 122 My Office</i>	<b>GCC North Hiking Club and Dual Enrollment Evaluations</b>
8:30	<b>MAT230</b> <i>13603</i> <i>A 105</i>	<b>MAT230</b> <i>13603</i> <i>A 105</i>	<b>MAT230</b> <i>13603</i> <i>A 105</i>	<b>MAT230</b> <i>13603</i> <i>A 105</i>	
9:00					
9:30					
10:00	<b>MAT150</b> <i>17927</i> <i>A 105</i>	<b>MAT150</b> <i>17927</i> <i>A 105</i>	<b>MAT150</b> <i>17927</i> <i>A 105</i>	<b>MAT150</b> <i>17927</i> <i>A 105</i>	
10:30					
11:00					
11:30	<b>MAT212/212H</b> <i>13627/13626</i> <i>A 105</i>	<b>MAT182</b> <i>13634</i> <i>A 105</i>	<b>MAT212/212H</b> <i>13627/13626</i> <i>A 105</i>	<b>MAT182</b> <i>13634</i> <i>A 105</i>	
12:00					
12:30					
1:00	<b>Office Hours*</b> <i>A 122 My Office</i>	<b>Office Hours*</b> <i>A 122 My Office</i>	<b>Office Hours*</b> <i>A 122 My Office</i>	<b>Tutor Hours*</b> <i>Building D</i> <i>Tutoring Area</i>	
1:30					
2:00					
2:30					

\* Additional Office Hours Available by Appointment

### Sexual Harassment Statement

Sexual harassment is any unwelcome, verbal or physical conduct of a sexual nature that is sufficiently severe, persistent or pervasive that it alters working conditions and creates a hostile environment or reasonably interferes with, limits, or deprives a student of the ability to participate in or benefit from any educational program or activity.

Sexual harassment and discrimination in any college education program or activity are prohibited. Sexual Harassment may include hostile environment harassment, sexual assault, inducing incapacitation for sexual purposes, sexual exploitation or dating violence and stalking.

Students should report any discrimination and/or harassment they experience and/or observe to the GCC Office of Student Life in the Student Union. Phone (623) 845-3525 or email [laura.dodrigill@gccaz.edu](mailto:laura.dodrigill@gccaz.edu).

To view the full Sexual Harassment Policy refer to the Student Handbook, Sexual Harassment Policy for Students (AR 2.4.4) (see also 5.1.8).