

## MAT142 THURSDAY SYLLABUS <http://web.gccaz.edu/~briag73751/index.html>



### COURSE

MAT142 – College Mathematics – Hybrid – Section 38168 – 3 Credits – Fall 2019

### INSTRUCTOR

Brian Bird – Office GCC North A 122 – (623) 888-7191 – [brian.bird@gccaz.edu](mailto:brian.bird@gccaz.edu)

### TIME and LOCATION

Thursdays 11:30 a.m. – 12:45 p.m. August 22<sup>nd</sup> – December 5<sup>th</sup> Classroom GCC North A 111

### COURSE DESCRIPTION

College-level mathematics and its applications to real-life problems. Emphasis on understanding mathematical concepts and their applications. Topics include set theory, probability, statistics, finance, and geometry. Note: Appropriate for the student whose major does not require college algebra or precalculus. Prerequisites: An appropriate district placement, or a grade of C or better in (MAT055, MAT056, and MAT057), or MAT085, or MAT09+.

**Note:** Meeting the prerequisites does not guarantee your success in this class. You need to bring basic arithmetic 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”. Hybrid classes typically require more.

### COMPETENCIES (<http://aztransmac2.asu.edu/cgi-bin/WebObjects/MCCCD.woa/wa/freeForm2?id=140579>)

Generally, students will:

1. work with sets
2. learn to count and solve basic probability problems
3. be introduced to statistics
4. solve financial problems
5. solve geometric problems and become comfortable with unit conversions

### RECOMMENDED BOOK

None. If you would like to borrow a text, you may. Otherwise, there are plenty of resources on the web.

### RECOMMENDED CALCULATOR

There are a ton of calculator options – physical and online. There is a built-in calculator on your smartphone and apps allow your smartphone to be converted to an advanced computing device (for example Wabbitemu is a free app that turns your Android device into a TI Graphing Calculator and works great). Please see the instructor if you have any questions.

### COMMUNICATION

I will be sending emails to your official school address. 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 <https://www2.gccaz.edu/technology-help/student-email> for further information. When you send emails to me, please include your first and last name as well as “MAT142 Tuesday” in the subject or first line.

### CANVAS

Canvas will be used to post the syllabus, direct you to my website, and have discussions amongst yourselves.

## GRADING

### PROJECTS 65%

There are 13 projects worth 5 points each. You will need to use the internet to complete the projects which are based on Microsoft Office (Word and Excel). Utilizing split or dual screens will make the process easier. Make sure to complete all parts of the project. List websites URLs when asked. Answer prompts of “Why” or “Explain” with 1 or 2 sentences minimum. Note that the last project is a group project. All projects are available on my website.

### PRESENTATIONS 35%

You will be required to make 5 presentations – each worth 7 points – one on each topic – with the last presentation being a group effort. For the 1<sup>st</sup> topic, your presentation will be a Poster Board or a PowerPoint. For the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> topic, you can choose between a Poster Board, a PowerPoint or a Speech with Props but you must present in each manner when all is said and done. The 5<sup>th</sup> topic will be a group presentation using a combination of techniques to compete against your peers on an Estimate/Quote for a Pool/Garden.

### EXTRA CREDIT

There will be many extra credit opportunities throughout the semester. For each approved opportunity, you will receive a bonus point on a presentation of your choice. Pre-approved extra credit examples include going on a hike with the Hiking Club or attending a workshop hosted by Counseling Services. Other activities are possible as long as we agree beforehand (e.g. setting and working towards a fitness goal, reading a classic piece of literature, etc.).

### FINAL

The final is scheduled for **Thursday December 12<sup>th</sup> 11:00 a.m. – 12:50 p.m.** During this time, groups from both Tuesday and Thursday classes will present their Estimate/Quote for a Pool/Garden.

### SEMESTER GRADE

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

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

### 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 will be withdrawn with a “Y” (withdrawn failing which is counted as an “F” toward your GPA) after the deadline (**Wednesday October 9<sup>th</sup> – last day to withdraw without the instructor’s signature**) unless you reach an agreement with the instructor.
4. College Catalog <https://www.gccaz.edu/gcc-catalog> and Student Handbook <https://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, **smartphones 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 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

### SUGGESTIONS FOR SUCCESS

1. Come to class every week
2. Don’t procrastinate
3. Fully complete your projects. List website URLs used when asked. Answer prompts of “Why” or “Explain” with 1 or 2 sentences minimum.
4. Practice and time your presentations. Use a mirror, friends, and/or family as aids.
5. Get help early and often
6. Take advantage of extra credit opportunities

**\*\*\* Note that this class is not for the lazy nor the procrastinator nor the learner who likes to be spoon fed \*\*\***

## ATTENDANCE POLICY

Attendance is very important. If you have excessive absences (based on my discretion), you will be withdrawn with a “Y” (withdrawn failing which is counted as an “F” toward your GPA).

**Note:** Coming in late or leaving early counts as an absence. Missing 3 classes, failing to complete 3 projects, or failing to present on 2 topics is considered excessive.

## OUTLINE

<b>Class Dates Topics</b>	<b>Projects are due at noon on the Friday following the class below. Presentations are due on or before the class below.</b>	<b>Notes</b>
8/22 Syllabus Review Introductions		
8/29 Sets	Set Project #1 – Comparative Essay Using Venn Diagrams	
9/5 Sets	Set Project #2 – Shirts and Venn Diagrams	Monday is Labor Day
9/12 Sets	Set Project #3 – Surveys and Venn Diagrams <b>Set Presentations – Poster Board or PowerPoint</b>	
9/19 Probability	Probability Project #1 – Coins	
9/26 Probability	Probability Project #2 – Conditional	
10/3 Probability	Probability Project #3 – Bayes	
10/10 Probability	Probability Project #4 – Counting <b>Probability Presentations – Poster Board, PowerPoint or Speech</b>	
10/17 Statistics	Stats Project #1 – Representation	
10/24 Statistics	Stats Project #2 – Center and Spread	
10/31 Statistics	Stats Project #3 – The Normal Distribution	Happy Halloween!!!
11/7 Finance	<b>Statistics Presentations – Poster Board, PowerPoint or Speech</b>	
11/14 Finance	Finance Project #1 – Retirement	Monday is Veterans Day
11/21 Finance	Finance Project #2 – Amortization <b>Finance Presentations – Poster Board, PowerPoint or Speech</b>	
11/28	<b>No class but feel free to come on Tuesday</b>	Happy Thanksgiving!!!
12/5 Measurement	Measurement Project – Pool/Garden Design	
<b>Thursday 12/12 11:00 a.m. – 12:50 p.m.</b>	<b>Measurement Presentations – Estimate/Quote</b>	<b>Finals Week</b>

## BRIAN BIRD'S SCHEDULE

Time	Monday	Tuesday	Wednesday	Thursday	Friday*
7:00					
7:30					GCC North Hiking Club and Dual Enrollment Evaluations
8:00	Office Hours* A 122 My Office	Office Hours* A 122 My Office	Office Hours* A 122 My Office	Office Hours* A 122 My Office	
8:30	MAT230 14726 A 111	MAT230 14726 A 111	MAT230 14726 A 111	MAT230 14726 A 111	
9:00					
9:30					
10:00	MAT150 37678 A 111	MAT150 37678 A 111	MAT150 37678 A 111	MAT150 37678 A 111	
10:30					
11:00					
11:30		MAT142 14669 A 111		MAT142 38168 A 111	
12:00	Office Hours* A 122 My Office		Office Hours* A 122 My Office		
12:30					
1:00	MAT120 38001 A 111	MAT120 38001 A 111	MAT120 38001 A 111	MAT120 38001 A 111	
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.

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).