

MAT172 11:00 a.m. SYLLABUS

COURSE

MAT172 – Finite Mathematics – Section 17557 – Fall 2011

INSTRUCTOR

Brian Bird – MA 179 – (623)845-3149 – brian.bird@gmail.maricopa.edu

TIME and LOCATION

Mondays, Wednesdays and Fridays 11:00 – 11:50 a.m. August 22nd – December 9th GCC Main MA 120

Note: No class on September 5th due to Labor Day
No class on November 11th due to Veterans' Day
No class on November 25th due to Thanksgiving

COURSE DESCRIPTION

An introduction to the mathematics required for the study of social and behavioral sciences. Includes combinatorics, probability, descriptive statistics, matrix algebra, linear programming and mathematics of finance. Includes applications of technology in problem-solving. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or MAT187 or equivalent, or satisfactory score on District placement exam.

Note: Meeting the prerequisites does not guarantee your success in this class. You will need to bring mathematical skills and a strong work ethic to the class in order to be successful.

REQUIRED BOOK

Finite Mathematics and Calculus with Applications by Lial, Greenwell and Ritchey, 8th edition

REQUIRED TECHNOLOGY

Technology is required. You will need to use Excel and/or a graphing calculator. A TI-83 Plus (or equivalent) is strongly recommended. They cost approximately \$90. A limited number of graphing calculators is available for lease from the college. Cell phone calculators are not permitted. Please see the instructor if you have any questions.

OBJECTIVES

Specifically, students will be able to:

7. solve probability problems
8. solve counting problems and apply counting to probability
9. utilize basic statistics to determine the best measure for center and spread given a data set
5. solve problems of finance
2. solve systems of linear equations using various techniques including matrices
3. solve linear programming problems using the graphing method
4. solve linear programming problems using the simplex method

Generally, students will:

1. learn about probability and statistics (chapters 7, 8 and 9)
2. learn about the mathematics of finance (chapter 5)
3. solve systems of linear equations and solve linear programming problems (chapters 2, 3 and 4)
4. become gods of the graphing calculator and Excel
5. achieve the skills and confidence necessary to apply mathematics in future courses and the real world

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 or call me (in advance if possible). If you have excessive absences (based on my discretion), you will be withdrawn with a "Y". Note: coming in late or leaving early counts as an absence.

GRADING

HOMEWORK/QUIZZES/GROUP WORK 15%

Various homework will be suggested during class. Homework will usually not be collected; however, it is highly recommended to complete the homework. 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 group work assignments. There will be no makeup homework or quizzes.

TESTS 65%

There will be three tests consisting of problems similar to problems presented in class, quizzes and homework assignments. Test 1 will cover chapters 7, 8 and 9. Test 2 will cover chapter 5. Test 3 will cover chapters 2, 3 and 4. Tests will require the use of technology. There will be no makeup tests.

FINAL or ONLINE HOMEWORK 20%

The Final will be Wednesday December 14th 11:00 a.m. – 12:50 p.m. There will be no makeup Final. The Final will be cumulative consisting of problems similar to test problems. In lieu of the Final, students may have their Online Homework score count provided that it is higher than 78% and their Test Average is higher than 66%. This will be discussed in detail during the first day of class.

INDIVIDUAL PROBLEMS

Typically, problems will be graded as follows:

- 5 points – entirely correct
- 4 points – correct with a minor mistake
- 3 points – main idea correct
- 2 points – somewhat correct
- 1 point – very little correct
- 0 points – blank/no clue

Note: Show all work and units!

FINAL GRADE

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 will be withdrawn with a “Y” (withdrawn failing which is counted as an “F” toward your GPA) after Friday October 7th if you don’t reach an agreement with the instructor
4. College Catalog and 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 be reported to the appropriate Dean.
8. Classroom Atmosphere Policy (engage, ask questions, share ideas, etc.)
9. Cheating and Plagiarism Policy (1st offense assessment failure, 2nd offense course failure)
10. Special Needs – if you have any special needs, please see the instructor as soon as possible
11. Getting Help

OUTLINE

Monday	Wednesday	Friday
8/22 Syllabus Review Introductions	8/24 Start Chap 7/8/9	8/26
8/29	8/31	9/2
Happy Labor Day!	9/7	9/9
9/12	9/14	9/16
9/19	9/21	9/23
9/26	9/28	9/30
10/3*	10/5 Start Chap 5	10/7
10/10	10/12	10/14
10/17	10/19	10/21
10/24	10/26	10/28*
10/31 Start Chap 2/3/4 Happy Halloween!	11/2	11/4
11/7	11/9	Happy Veterans' Day
11/14	11/16	11/18
11/21	11/23	Happy Thanksgiving!
11/28	11/30	12/2
12/5*	12/7 Review – Study!!!	12/9 Review – Study!!!
	12/14* Final 11:00a.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						
8:30		MAT212 17569 MA 120		MAT212 17569 MA 120		
9:00	MAT092 17465 MA 100		MAT092 17465 MA 100			
9:30						
10:00	MAT092 17462 MA 100	MAT212 17655 MA 120	MAT092 17462 MA 100	MAT212 17655 MA 120	Office Hours* Math Solution	
10:30						
11:00	MAT172 17557 MA 120	Office Hours* MA 179	MAT172 17557 MA 120	Office Hours* MA 179	MAT172 17557 MA 120	
11:30						
12:00	Office Hours* MA 179		Office Hours* MA 179			
12:30						
1:00						
		Office Hours* MA 179		Office Hours* MA 179		
1:30						
2:00						

* Additional Office Hours Available by Appointment