

COLLEGE MATHEMATICS – MATH 102
Cedar Crest College – Fall 2009
Wednesday; 7:00 – 9:30 PM

Instructor – Gary Moll
Academic Services
Curtis 113
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Office Hours – 6:00 to 7 :00 PM, Wednesday or by appointment

Text – Mathematics In Our World; Allan G. Bluman

Prerequisites – none

Course Description – This course is designed as an introduction and/or review of basic mathematical concepts. There will be an emphasis on problem-solving technique. Emphasis will be placed on the art of solving various types of mathematical problems, estimating and reading graphs, mathematical operations, algebra, equations and geometry. Other mathematically related topics are also discussed.

Course objectives – Upon completion of the course the student will be able to:

1. Read, analyze and solve a wide range of mathematical problems.
2. Approximate and predict solutions to mathematical problems.
3. Understand and apply the basic concepts of mathematical operations and algebra.
4. Understand and apply the basic concepts of equations, lines and graphs, geometry, logic, and set theory.

Instructional Method – Class time will be split between instructor demonstration and student practice. The student is encouraged to ask for assistance as soon as they feel the need. Do not wait until it is too late. Homework assignments will be given for student practice. **PRACTICE IS ESSENTIAL TO SUCCESS IN THIS COURSE.** The homework assignments will not be collected or graded. Your grade will be determined by a test after each chapter plus a comprehensive final.

Attendance – Attendance is very important. However, roll will not be taken. You are responsible for all material given during class whether you are in attendance or not. If you are absent from a test, a valid doctor's excuse is necessary to retake the test. Any other excuses are frowned upon, but will be considered on a case-by-case basis. If no valid excuse is produced, you will receive a grade of zero for that test.

Grading –

A	93 – 100	C+	77 – 79	F	<60
A-	90 – 92	C	73 - 76		
B+	87 – 89	C-	70 - 72		
B	83 – 86	D+	67 - 69		
B-	80 - 82	D	60 – 66		

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COURSE SCHEDULE AND SUGGESTED HOMEWORK PROBLEMS

8/26	Introduction/syllabus 1.1, 1.2 1.2, 1.3 Dimensional analysis	p. 7: 1 - 15, odd p.15: 1 – 29, odd p. 25: 1 - 45, odd
9/2	TEST (CH. 1) 2.1 2.2	p. 41; 1 - 63, odd p. 50: 1 - 63, odd
9/9	2.3 2.4 2.5	p. 58: 1 - 33, odd p. 63: 1 – 15, odd p. 68: 1 – 19, odd
9/16	TEST (CH. 2) 3.1 3.2	p. 80: 1 - 73, odd p. 91: 1 – 29, odd
9/23	3.3 3.4 3.5	p. 98: 1 - 25, odd p. 104: 1 – 21, odd p. 111; 1 – 19, odd
9/30	TEST (CH. 3) 4.1 4.2	p. 129: 1 – 81, odd p. 141: 1 – 49, odd
10/7	4.2 (con't) 4.3	same as 9/30 p. 152: 1 – 15, odd
10/14	TEST (CH. 4) 5.1 5.2 5.3	p. 168: 1 – 69, odd p. 179: 1 – 73, odd p. 192: 1 – 57, odd
10/21	5.4 5.5 5.6	p. 201: 1 – 39, odd p. 210: 1 – 15, odd p. 219: 1 – 77, odd

10/28	TEST (CH. 5) 6.1 6.2	p. 246: 1 – 35, odd p. 254: 1 – 39, odd
11/4	6.3 TEST (CH. 6)	p. 260: 1 - 29, odd
11/11	7.1 7.2 7.3	p. 275: 1 – 49, odd p. 287: 1 – 43, odd p. 293: 1 -43, odd
11/18	7.4, 7.5 7.6 TEST (CH. 7)	p. 300: 1 – 43, odd, p. 311: 1 – 39, odd p. 324; 1 – 45, odd
11/25	no class-Thanksgiving	
12/2	8.1 OR 10.6 10.1, 10.2, 10.3 10.4, 10.5 TEST (CH. 8 or CH. 10)	p. 347; 1 – 47, odd p. 507; 1 – 31, odd p. 467: 15- 39; p.475; 7 – 15; p. 483: 11 – 9, all odd p. 493: 1 – 25; p. 488: 1 – 11; all odd

Dates for a review session and the final exam will be announced when they are known.