

Miami-Dade College Homestead Campus

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Course Title: College preparatory Arithmetic. **4 credits.**

Course number: MAT 0002.

Description: This course introduces students to the basic topics of arithmetic and measurement of geometric figures. Students will add, subtract, multiply, and divide whole numbers, fractions and decimals. Students will solve problems involving proportions and percents. Prerequisite: Appropriate placement test scores or referral determine admission. (6 contact hrs. lecture/lab)

Text: Basic College Mathematics by Lial Salzman Hestwood

Attendance: Try not to be absent! Keep in mind that this course is a 4-credit course and it requires a lot of meeting hours and lab hours.

If you are absent it is your responsibility to catch up with the rest of the class. Please see me if you have questions on the material you have missed.

Supplementary Materials:

MYMATHLAB on line software package sold separately or included with new textbook. No calculators allowed.

Learning Support Lab and MYMATHLAB Requirement.

- 1) Visit the Learning Support lab at least one hour per week.
- 2) Complete the homework that will be posted before its due date, you must completed at least 70%, if you want obtain a 100 points of the LAB. For registration in the Lab, you should use the Course ID# taboada72319.

Tests: There will be 7 tests and a state final, all equally weighted.
NO MAKE UPS.

NOTE. Students must score at least 70% on the final AND have 70% overall in the class AND complete 16 lab hours to pass this class.

Final Course Grade.

There are three possible Course Grades. They are S, P or U.

S – Satisfactory. Students receiving “S” may proceed to the next math course. Course Average 70%.

P - Progress. Students must repeat the course (GPA not affected). Course average below 70%.

U – Unsatisfactory Students must repeat the course (GPA AFFECTED)

Students display unsatisfactory behavior such as insufficient effort, poor attendance, missing tests, etc.

Grading Scale:

- A – 90% to 100%**
- B - 80% to 89%**
- C - 70% to 79%**
- D - 60% to 69%**
- F - 59% to 69%**

Final Course Average:

Tests and Final exam 100 points each one
Assignments (Will be collected in every test) 5 points Additional each one

MYMATHLAB assignment (350 problems, due Last week) 100 points

Final Course Average:800 points, and the students must reach at least 560 points.

Student Responsibilities:

- 0 It is imperative that you complete the homework as best you can.
1. Try not to be late as it is distracting to the other students.
2. Put all cells and beepers in vibrating mode.
3. **No cheating. Cheating of any form will be cause for immediate removal from this class and a grade of F will be given for the course.**
4. I do not give W's. It is your responsibility to withdraw from the course prior to the deadline. I also do not place a student into an "audit" status. You must declare yourself as an auditing student during the first week of the semester. If you simply stop attending class without formally withdrawing from the course, you will receive an automatic U.
5. Please take advantage of the math lab and my office hours.
6. **Respect your fellow classmates and your instructor.**

Objectives:

The most important objectives are:

0. To motivate students about College and Math
1. Prepare students for MAT 0020
2. Challenge students to think analytically.
3. To show how Mathematics can be integrated into the scientific and business related fields.
4. To help students overcome Math anxiety.
5. To challenge students to explain to their peers what they have learned in the course.

Final Notes:

The Teacher will verbally announce dates of all Tests at least two weeks in advance. All changes to this Syllabus will be made by the Teacher and announced in advance, in class.

MAT-0002	Date	Topics
Week -1	9-Jan	Introduction of the Course Section 1.1 Reading and Writing Whole numbers
	11-Jan	Section 1.2 Adding Wholes Numbers Section 1.3 Subtraction Whole Number Section 1.4 Multiplying Whole numbers
Week -2	14-Jan	Exercises of 1.1, 1.2, 1.3,and 1.4
	16-Jan	Section 1.5 Dividing Whole Numbers Section 1.6 Long Division
	18-Jan	Exercises 1.5, and 1.6
Week -3	21-Jan	Section 1.7 Rounding Whole Numbers, Section 1.8 Exponents, roots and order of Operations
	23-Jan	Section 1.9 Reading Pictographs, Bar Graphs, and Line Graphs Section 1.10 Solving Application Problems
	25-Jan	Review for Test#1
Week -4	28-Jan	Test#1
	30-Jan	Section 2.1 Basic Fractions Section 2.2 Mixed Numbers Section Section 2.3 Factors Section 2.4 Writing a fraction in Lowest Terms
	1-Feb	Exercises 2.1,2.2,2.3,and 2.4
Week -5	4-Feb	Section 2.5 Multiplying Fractions Section 2.6 Application of Multiplication Section 2.7 Dividing Factors Section 2.8 Multiplying and Dividing Mixed Numbers
	6-Feb	Exercises 2.5,2.6,2.7,and 2.8
	8-Feb	Section 3.1 Adding and Subtraction like Fractions Section 3.2 Least Common Multiples Section 3.3 Adding and Subtracting Unlike Terms
Week -6	11-Feb	Section 3.4 Adding and Subtraction Mixed Numbers Section 3.5 Order Relations and the Order of Operations
	13-Feb	Review for test#2
	15-Feb	Test#2
Week -7	18-Feb	Section 4.1 Reading and Writing Decimals Section 4.2 Rounding Decimals Section 4.3 Adding and Subtracting Decimals
	20-Feb	Section 4.4 Dividing Decimals Section 4.2 Writing Fractions as Decimals

	22-Feb	Exercises 4.1,4.2,4.3,and 4.4
Week -8	25-Feb	Review for Test#3
	27-Feb	Test#3
	29-Feb	Section 5.1 Ratios Section 5.2 Rates Section 5.3 Proportions Section 5.4 Solving Proportions
Week -9	3-Mar	Exercises 5.1, 5.2, 5.3, and 5.4
	5-Mar	Section 5.5 Solving Applications Problems with Proportions
	7-Mar	Exercises 5.5
Week -10	10-Mar	Review for test#4
	12-Mar	Test#4
	14-Mar	Section 6.1 Basics of Percent Section 6.2 Percent and Fractions Section 6.3 Using the Percent Proportion and Identifying the Components in a Percent Problem
Week -11	17-Mar	Exercises 6.1, 6.2,and 6.3
	19-Mar	Section 6.4 Using Proportions to Solve Percent Problems
	21-Mar	Exercises 6.4
Week -12	24-Mar	Review for test#5
	26-Mar	Test#5
	28-Mar	Section 8.1 Basic Geometric Terms Section 8.3 Perimeter and Area of Rectangle
Week -13	31-Mar	Section 8.4 Perimeter and Area of Parallelogram and Trapezoids
	2-Apr	Section 8.5 Perimeter and Area of Triangles
	4-Apr	Section 8.6 Circunference of Circles, Areas of Circles
Week -14	7-Apr	Section 8.7 Volume
	9-Apr	Section 8.8 Pythagorean Theorem Section 8.9 Similar Triangles
	11-Apr	Review for test#6
Week -15	14-Apr	Test#6

	16-Apr	Section 9.1 Signed Numbers Section 9.2 Adding and Subtracting Signed Numbers Section 9.3 Multiplying and Dividing Signed Numbers
	18-Apr	Section 9.4 Order of Operations
Week -16	21-Apr	Section 9.5 Evaluating Expressions and Formulas
	23-Apr	Section 9.6 Solving Equations
	25-Apr	Section 9.7 Solving Equations with Several Steps
Week -17	28-Apr	Section 9.8 Using Equations to Solve Application Problems
	30-Apr	Review for Test#7
	2-May	Test#7