COURSE SYLLABUS
MAT 56: Fundamentals of Math

Course Description
This course is designed to provide students with a review of fundamental math. It will ensure their preparation for the higher level, college math courses they will encounter throughout their time in the General Education portion of their degree program. Topics will include fundamental operations with whole numbers, fractions and mixed numbers, decimals, the Real Number system, and measurement systems.

General Course Information

Number of Units/Weeks	2 / 10
#Hours Lecture/#Hours Laboratory/#Hours Homework	20 / 0 / 96
Prerequisite(s)	N/A
Co-requisites (s)	N/A
Course Developer(s)	Amanda Hernandez, B.S.
Date Approved / Last Review	June 2014 / August 2014

Learning Outcomes
- Identify whole numbers, fractions and mixed numbers, decimals, and real numbers.
- Perform standard arithmetic operations on whole numbers, fractions and mixed numbers, decimals, and real numbers.
- Estimate by rounding.
- Convert fractions / mixed numbers into decimals and vice versa.

Instructional Methods Employed in this Course
- Reading assignments
- Hands-on exercises and labs
- Research
- Practical application of theory and skills
- Build on prior knowledge and experience of students to enhance richness of class activities

Information Resources for this Course
Web Site Lessons
My Foundations Lab - Pearson

Table/Topics & Assignments

Types of Assignments:

Lecture -
Considered Lecture Hours
Classroom Discussion -
Considered Lecture Hours
In Class Critique -
Considered Lecture Hours
Delivering Oral Presentations -
Considered Lecture Hours
In Class (IC) Exercise -
Considered Lecture Hours
Reading -
Considered Homework, work done outside of class
WebClass lesson (non-online courses) -
Considered Homework, work done outside of class
Lab Work -
Considered Lab Hours
Quiz, Midterm or Final -
Considered Lecture Hours

Week 1						
Type	**Topic/Description**	**LEC Hours**	**LAB Hours**	**HW Hours**	**Point Value**	**Due**
LAB 1A	M1.1 Reading and Writing Whole Numbers	4			20	**WEEK 1**
HW 1A	M1.2 Comparing and Rounding Whole Numbers			4	40	**WEEK 2**
HW 1B	M1.3 Adding and Subtracting Whole Numbers			4	40	**WEEK 2**
Total Week 1		4		8	100	
Week 2						
Type	**Topic/Description**	**LEC Hours**	**LAB Hours**	**HW Hours**	**Point Value**	**Due**
HW 2A	M1.4 Multiplying Whole Numbers			4	20	**WEEK 3**
HW 2B	M1.5 Dividing Whole Numbers			4	40	**WEEK 3**

HW 2C	M1.6 Estimate by Rounding			4	40	**WEEK 3**
Total Week 2				12	100	
Week 3						
Type	**Topic/Description**	**LEC Hours**	**LAB Hours**	**HW Hours**	**Point Value**	**Due**
LAB 3A	M1.8 Order of Operations	4			20	**WEEK 3**
HW 3A	M1.9 Factors of Whole Numbers			4	40	**WEEK 4**
HW 3B	M2.1Basics of Fractions			4	40	**WEEK 4**
Total Week 3		4		8	100	
Week 4						
Type	**Topic/Description**	**LEC Hours**	**LAB Hours**	**HW Hours**	**Point Value**	**Due**
HW 4A	M2.2 Basics of Mixed Numbers			4	20	**WEEK 5**
HW 4B	M2.3 Writing a Fraction in Lowest Terms			4	40	**WEEK 5**
HW 4C	M2.4 Equivalent Fractions			4	40	**WEEK 5**
Total Week 4				12	100	
Week 5						
Type	**Topic/Description**	**LEC Hours**	**LAB Hours**	**HW Hours**	**Point Value**	**Due**
LAB 5A	M2.5 Multiplying Fractions	4			20	**WEEK 5**
HW 5A	M2.6 Dividing Fractions			4	40	**WEEK 6**
HW 5B	M2.7 Adding and Subtracting Like Fractions			4	40	**WEEK 6**
Total Week 5		4		8	100	
Week 6						
Type	**Topic/Description**	**LEC Hours**	**LAB Hours**	**HW Hours**	**Point Value**	**Due**
HW 6A	M2.8 LCM & LCD			4	20	**WEEK 7**
HW 6B	M2.9 Adding and Subtracting Unlike Fractions			4	40	**WEEK 7**

HW 6C	M2.10 Exponents and Roots			4	40	**WEEK 7**
Total Week 6				12	100	

Week 7

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LAB 7A	M3.1 Reading and Writing Decimals	4			20	**WEEK 7**
HW 7A	M3.2 Comparing and Rounding Decimals			4	40	**WEEK 8**
HW 7B	M3.3 Adding and Subtracting Decimals			4	40	**WEEK 8**
Total Week 7		4		8	100	

Week 8

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
HW 8A	M3.4 Multiplying Decimals			4	20	**WEEK 9**
HW 8B	M3.5 Dividing Decimals			4	40	**WEEK 9**
HW 8C	M3.6 Writing Fractions and Decimals			4	40	**WEEK 9**
Total Week 8				12	100	

Week 9

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LAB 9A	M4.1 Introduction to Integers, Opposites, and Absolute Value	4			20	**WEEK 9**
HW 9A	M4.2 Adding Integers			4	40	**WEEK 10**
HW 9B	M4.3 Subtracting Integers			4	40	**WEEK 10**
Total Week 9		4		8	100	

Week 10

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
HW 10A	M4.4 Multiplying and Dividing Integers			4	50	**WEEK 10**
EXAM 1A	Cumulative Exam			4	50	**WEEK 10**
Total Week 10				8	100	

Course Hours Summary

Week	Topic	LEC Hours	LAB Hours	HW Hours
1	Basics of Whole Numbers	2		8
2	Multiplying / Dividing Whole Numbers; Estimation by Rounding	2		12
3	Order of Operations; Basics of Fractions	2		8
4	Dealing with Mixed Numbers, Lowest Terms, and Equivalent Fractions	2		12
5	Multiplying / Dividing Fractions; Adding / Subtracting Like Fractions	2		8
6	LCM & LCD: How they help with adding and subtracting unlike fractions; Exponents and Roots	2		12
7	Basics of Decimals	2		8
8	Multiplying / Dividing Decimals; Conversion of Fractions and Decimals	2		12
9	Integers, Opposites, and Absolute Value	2		8
10	Multiplying and Dividing Integers & Cumulative Exam	2		8
Total		20	0	96

Table/Point Breakdown

Assignment Type	Possible Points	Percent of Grade
Bi-Weekly LAB	100	10%
FINAL EXAM	50	5%
Homework	850	85%
TOTAL	**1000**	**100%**

Your Grades for this Course

Your final grade for this course will be based on an assessment by the Instructor of your performance on a number of course activities, which may include objective tests, classroom exercises, laboratory demonstrations, project papers, or other types of activities. The chart below indicates in what activities you will engage, how many possible points can be earned for each activity, and the percentage of your final grade that will be accounted for by each activity.

Students in this course should be graded following Coleman University assessment practices and policies. A point system is used in the University to indicate student performance on various required activities or projects. For this course, it is recommended that points be distributed as follows:

Coleman University Grade Assignment Policy:

Percent	Letter Grade	Grade Points
94-100	A	4
90-93	A-	3.67
87-89	B+	3.33
84-86	B	3
80-83	B-	2.67
77-79	C+	2.33
74-76	C	2
70-73	C-	1.67
67-69	D+	1.33
64-66	D	1
60-63	D-	0.67
N/A	INC	0
N/A	W	0
60 or above	CR	0
59 or below	NC	0
N/A	I	0
N/A	W	0
N/A	AU	0
N/A	TR	0
N/A	WV	0

Legend	
CR = Credit	NC = No Credit
I = Incomplete	W = Course Withdrawal
AU = Audit	TR = Transfer Credit
WV = Waiver	

Academic Accommodation / Adjustment Policy:

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA), Coleman University offers accommodations to students with documented physical, psychological, and/or cognitive disabilities. Coleman University will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to offer equal educational opportunities to qualified disabled individuals.

To qualify for an academic accommodation under ADA, the student must provide adequate documentation of a disability. Students seeking academic accommodations should contact the campus ADA Coordinator at 858-966-3953 or via email at ada@coleman.edu. The ADA Coordinator will review the documentation provided and verify ADA coverage. Students covered under ADA must meet with the ADA Coordinator at the beginning of every term to determine the appropriate academic accommodations. Failing to meet with the ADA Coordinator at the beginning of every term may impact the availability of accommodations.

After the academic accommodations have been determined, the students' instructors will be notified by the ADA Coordinator. If any problems or concerns regarding the provision of accommodations occur, the student must inform the ADA Coordinator. If the student feels accommodation is not being made appropriately, the student may follow the published Student Grievance Procedures.