

Angelina College
Science & Mathematics Division
Math0310 – Basic Math
Instructional Syllabus

I. BASIC COURSE INFORMATION:

A. Course Description

MATH 0310 – Basic Math. Topics in mathematics such as arithmetic operations involving whole numbers, fractions, decimals, and integers, ratio and proportion, percent, basic geometry and basic algebraic concepts. This course may not be used for degree credit and is not intended for transfer to a senior college. Three lecture and one lab hour each week. Lab fee.

B. Intended Audience:

Students needing to strengthen their mathematics background before taking college level mathematics courses.

C. Instructor: Cindy Polson

Office Location: Jasper

Office Hours: by appointment

E-mail Address: cpolson@angelina.edu

II. INTENDED STUDENT OUTCOMES:

A. Core Objectives Required for this Course

1. **Critical Thinking:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
2. **Communication:** to include effective development, interpretation and expression of ideas through written, oral and visual communication
3. **Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

B. Course Learning Outcomes for all Sections

1. Perform basic operations and solve linear equations involving integers.
2. Convert values among fractions, decimals, and percents.
3. Recognize and solve proportion problems.
4. Use geometric formulas to determine areas and volumes of various figures.

III. ASSESSMENT MEASURES

A. Assessments for the Core Objectives:

The core objectives will be assessed with embedded test questions. Appropriate rubrics will be used.

B. Assessments for Course Learning Outcomes

All course learning outcomes for this class will be assessed with embedded test questions. Course specific assessment measures will be used.

IV. INSTRUCTIONAL PROCEDURES:

This course is taught using a combination of lectures, discussions, and practice exercises. The amount of time spent using any one technique will vary from lesson to lesson as determined to be most appropriate by the instructor.

V. COURSE REQUIREMENTS AND POLICIES:

A. **Required Textbooks and Recommended Readings, Materials and Equipment**

1. Basic College Mathematics by Tobey, Slater, Blair and Crawford (Pearson), Eighth Edition.
2. MyLabsPlus Online Learning System, an on-line, tutorial, homework and assessment tool (included with new books from the A.C. book store or purchased on www.angelina.mylabsplus.com).
3. Calculator use will be strictly regulated per chapter and content. When allowed, only 4-function calculators may be used.

B. **Course Policies – This course conforms to the policies of Angelina College as stated in the Angelina College Handbook.**

1. **Academic Assistance** – If you have a disability (as cited in Section 504 of the Rehabilitation Act of 1973 or Title II of the Americans with Disabilities Act of 1990) that may affect your participation in this class, you should see Sellestine Hunt, Room 200 of the Student Center. At a post-secondary institution, you must self-identify as a person with a disability; Ms. Hunt will assist you with the necessary information to do so. To report any complaints of discrimination related to disability, you should contact Mr. Steve Hudman, Student Center, Room 101 or 936-633-5292.
2. **Attendance** – Attendance is required as per Angelina College Policy and will be recorded every day. Any student with three (3) consecutive absences or five (5) cumulative absences may be dropped from the class. **Your math lab absences are recorded and counted toward absences in this class.** Records will be turned in to the academic dean at the end of the semester. Do not assume that non-attendance in class will always result in an instructor drop. You must officially drop a class or risk receiving an F. A student may also be dropped who has not enrolled in MyLabsPlus by **February 1st**. The last day to drop a class is **April 3rd**.
3. **Technical Support** – Technical issues do not excuse late homework. Please contact Pearson at 888-883-1299, or contact our lab specialist, Zach Powell at zpowell@angelina.edu.
4. **Cell Phones** –
5. **Cheating** – Cheating is not tolerated as per Angelina College policy and may result in a zero for the assessment and/or expulsion from the course. Any cell phone possession/use during assessment is strictly prohibited and is considered cheating. No replacement possible for a zero due to cheating.

VI. COURSE CONTENT –

Required Content/Topics

1. Operations with whole numbers
2. Operations with fractions
3. Operations with decimals
4. Ratio and Proportion
5. Percent
6. Geometry
7. Operations with integers
8. Introduction to Algebra

VII. EVALUATION AND GRADING:

A. Grading Criteria

1. Four major tests at 100 points each (total 400 points).
 2. Daily homework grades completed in MyLabsPlus valued at 100 points.
 3. Classwork, daily quizzes, notebook checks, and/or other homework valued at 100
 4. Lab participation 50 points.
 5. A comprehensive final examination valued at 150 points.
- Total: 800 points

B. Determination of Grade

1. The grading scale is:
90% - 100% = A
80% - 89% = B
70% - 79% = C
60% - 69% = D or IP*
59% & below = F or IP*
2. *"IP" means *in progress* and the course must be repeated. To receive an IP, the student must show a consistent effort to pass the class with regular attendance, doing homework, and taking exams (including the final exam)
3. There are no make-up tests: the lowest/misssed test may be replaced by your final Exam.

The instructor may modify the provisions of the syllabus to meet individual class needs by informing the class in advance as to the changes being made.

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1	01/17	1.1 1.2 1.3 1.4 1.5	Understanding Whole Numbers Adding Whole Numbers Subtracting Whole Numbers Multiplying Whole Numbers Dividing Whole Numbers
2	01/24	1.6 1.7 1.8 2.1 2.2 2.3	Exponents and Order of Operations Rounding and Estimating Solving Applied Problems Involving Whole Numbers Understanding Fractions Simplifying Fractions Converting Between Improper Fractions and Mixed Numbers
3	01/31	2.4 2.5 2.6 2.7 2.8 2.9	Multiplying Fractions and Mixed Numbers Dividing Fractions and Mixed Numbers The Least Common Denominator and Creating Equivalent Fractions Adding and Subtracting Fractions Adding and Subtracting Mixed Numbers and the Order of Operations Solving Applied Problems Involving Fractions
4	02/07	Review Exam	Review for Exam 1 Exam 1
5	02/14	3.1 3.2 3.3 3.4 3.5	Using Decimal Notation Comparing, Ordering, and Rounding Decimals Adding and Subtracting Decimals Multiplying Decimals Dividing Decimals
6	02/21	3.6 3.7 4.1 4.2 4.3 4.4	Converting Fractions to Decimals and Order of Operations Estimating and Solving Applied Problems Involving Decimals Ratios and Rates The Concept of Proportions Solving Proportions Solving Applied Problems Involving Proportions
7	02/28	Review Exam	Review for Exam 2 Exam 2
8	03/07	9.1 9.2 9.3 9.4	Adding Signed Numbers Subtracting Signed Numbers Multiplying and Dividing Signed Numbers Order of Operations with Signed Numbers

9	03/21	10.1 10.2 10.3 10.4	Variables and Like Terms The Distributive Property Solving Equations Using the Addition Property Solving Equations Using the Division or Multiplication Property
10	03/28	10.5 10.6 10.7 Review	Solving Equations Using Two Properties Translating English to Algebra Solving Applied Problems Review for Exam 3 Last Day to Drop with a W is April 3rd
11	04/04	Exam 5.1 5.2 5.3A	Exam 3 Understanding Percent Changing Between Percents, Decimals and Fractions Solving Percent Problem Equations
12	04/11	5.3B 5.4 5.5 7.1 7.2 7.3	Solving Percent Problem Proportions Solving Applied Percent Problems Solving Commission, Percent Increase or Decrease, and Interest Problems Angles Rectangles and Squares Parallelograms, Trapezoids, and Rhombuses
13	04/18	7.4 7.5 7.6 7.7 7.8 7.9 7.10	Triangles Square Roots The Pythagorean Theorem Circles Volume Similar Geometric Figures Solving Applied Problems Involving Geometry
14	04/25	Review Exam	Review for Exam 4 Exam 4
15	05/02	Review	Review for Final Exam
16		Final	Final Exam