

Stillman College
Tuscaloosa, Alabama
Computational and Informational Science Department
MAT 130

Course Description

This course emphasizes the principles of basic arithmetic and algebraic, structures and properties of the real numbers, number systems in various bases, and other basic concepts taught in elementary grades.

Course Objectives

This course follows objectives of the STEP program which produces effective, professional educators who practice inquiry, synthesis, implementation, reflection, and collaboration in order to meet institutional, professional, and state standards and to facilitate the intellectual, social, and personal development of diverse learners. The STEP faculty exhibits responsibility, ethical behavior, and commitment in all instructional and professional practice so that teacher candidates acquire and demonstrate these dispositions in their teaching and in their relationships with school colleagues, parents and families, and agencies in the larger community.

After completing this course students would have gained knowledge of:

1. The components of comprehensive, researched-based, effective reading for math programs.
2. Techniques for using manipulative materials and play as instruments for enhancing development and learning mathematics.
3. Ability to use manipulative materials and play as instruments for enhancing development and learning mathematics.

Course Units - Major Topics

Chapter 1 Problem Solving
Chapter 2 Logic and Sets
Chapter 3 Whole Numbers
Chapter 4 Number Theory
Chapter 5 Integers
Chapter 6 Rational Numbers
Chapter 7 Decimals and Percents

Course Textbook: A Problem Solving Approach to Mathematics for Elementary School Teachers, 13th edition

MyMathLab Access Code

Each student must have an access code in order to do all of the course work. Follow the instructions on the handout in Module 0 in canvas to set up a MyMathLab account and to access the course materials. The access code gives you an electronic copy of the book in your account. MML Registration Instructions is a separate document from syllabus which is located in Module 0 in Canvas.

IMPORTANT NOTE: MyMathLab/Pearson will NOT give you an accurate reflection of your cumulative grade. It does not appropriately calculate weight nor does it consider bonus points. If you want to know where you stand in the class check Canvas or email me at dwinn@stillman.edu.

Expected Learning Outcomes

Students are expected to

1. Read course syllabus and know course expectations in order to complete course as expected
2. Set up your account in MyMathLab. See the section above for details.
3. Complete all assigned work. All assignments (homework, quizzes, exams, and the final exam) are in the Pearson MyLab Math system.
4. Read and study all examples with pencil and paper to gain an understanding.
5. Observe all deadlines
6. Contact instructor ahead of time for additional help on assignments.
7. Check Canvas daily for announcements, additional assignments, and for any new information.

Assignments

ALL assignments are in MML. Therefore you must create an account in MML, otherwise you will fail this course. Assignments will not be accepted through any other means. All work is due by the deadline provided in MML and you will not be able to access the work after the deadline. The assignments that support the above learning goals include:

- **MML HW:** All homework assignments are in MML. You have unlimited opportunities to complete the homework assignments until the deadline, so there is no reason to get less than 100% on each assignment. For each question there is a “Question Help” button on the upper right side of the screen. You are encouraged to use the help tools available to you through the system. For each assignment there are links in Canvas to online videos and resources that can also help you understand the topics covered in the assignment. Also, an electronic version of the book is in MML for you to reference for additional help. At the end of the semester your lowest 6 homework grades will be dropped when your final grade is calculated.
- **MML Quizzes:** All quizzes are in MML. You have 3 attempts for each quiz. Your highest score from your attempts will be used. At the end of the semester your lowest 2 quiz grades will be dropped when calculating your final grade.
- **MML Test:** All test are in MML. You have 3 attempts for each test. Your highest score from your attempts will be used. At the end of the semester your lowest test grade will be dropped when calculating your final grade.
- **MML Comprehensive Final Exam.** The Final Exam is in MML. You have 3 attempts for the final exam. Your highest score from your attempts will be used.
- **Bonus Points:** Bonus points are offered throughout the course in MML and Canvas. At the end of the semester the bonus points will be added to your homework and quiz grades, whichever helps you the most.

Assessment

Here is the breakdown of the types of assignments in this course and how much they are worth in relation to total points available in class.

Assignment Category	Breakdown of Points	weight
Homework	24 HW in MML, lowest 6 dropped	25%
Quizzes	10 Quizzes in MML, lowest 2 dropped	25%
Test	7 Chapter Exams in MML, lowest dropped	30%
Final Exam	1 comprehensive final exam in MML	20%
Total		100%

Late Assignment Policy

TECHNOLOGY ISSUES CANNOT BE USED AS AN EXCUSE IN ANY CIRCUMSTANCES because all work is accessible from the first day of class. Hence you have from the first day of class until the due date to complete it. To avoid technological issues, you should start early instead of waiting for the very last minute. You will receive a score of 0 for any missed assignments.

Attendance/Class Participation: While attendance is not part of your grade, you will have the opportunity to earn bonus points by your participation. This includes attending discussion sessions hosted online, participation in online forums/chats, participating in online review sessions, etc.