Syllabus: *Mat 082 Basic Math*

Course Information	
Course Prefix/Number: Mat 082 Semester: Fall 2019 Class Days/Times: MW 5:30- 7:40pm	Credit Hours: 3 Course Title: Basic Math Room: Computer Lab

Instructor Information:	
Engr. ZORAYDA AGUS	E-mail: zorayda.agus2@yahoo.com; zagus@tocc.edu Phone/Voice Mail: 928-475-2315 x 4503 (1-4 pm) Office location: JM 02 Office hours: MW 4:45pm- 5:15pm

Course Description:
Fundamentals and applications of arithmetic. Includes operations on whole numbers, fractions, decimal numbers, ratio and proportion, percent, and measurement.

Course Objectives:

During this course students will ……..

1. Add, subtract, multiply, divide and solve word problems using whole numbers.
2. Identify place values for whole numbers and decimal numbers.
3. Round off numbers and use rounded numbers to estimate answers to arithmetic problems.
4. Factor whole numbers into prime factors.
5. Add, subtract, multiply, and divide with fractional numbers.
6. Add, subtract, multiply and divide with decimal numbers.
7. Estimate answers involving fractions or decimals.
8. Solve word problems involving fractional or decimal numbers.
9. Use ratio and percentage.

10. Solve problems using percent.
11. Solve word problems involving area and perimeter of rectangles and triangles.
12. Solve word problems involving area and circumference of circles.
13. Apply metric and American systems of measurement.
14. Convert within and between the American and metric systems.

Student Learning Outcomes (SLOs): (Three to Six)

After completion of the course students will be able to *<<action verb>> <<something>>* **……**

- Perform arithmetic operations with numbers with/without the use of calculators. • Create a mathematical project using technology. • Employ paper and pencil, or technology to set up and solve real world situation

Course Structure: This course will be delivered through the computer using ALEKS. Students are expected to log in for a minimum of 8 hours per week.

Texts and Materials: The text used will be on the Aleks program. Students must purchase an electronic text. All material needed will be in the ALEKS Program.

Evaluation and Grading & Assignments: Daily attendance 10% Outside assignments 15% Hours logged on 10% Pie progress (8 topics per class meeting) 65%

Apache Cultural Component: San Carlos Apache College is in the process of developing culturally relevant curriculum and coursework in Apache history, culture, and language. Student and community feedback will guide this process. All SCAC instructors will find ways to incorporate culturally relevant topics and materials into their courses as appropriate.

Policies and expectations- minimally Students are expected to attend class 3 hours per week and log on a minimum of 8 hours per week. In order for learning to progress, academic honesty is essential. Ask for help when you do not understand. Your instructor is your first resource. The best way to learn math is to do math every day. The more you log on the faster your skills will grow. The Aleks program will periodically test your skill to assess progress. You may find you are repeating items you have previously covered because you did not pass the assessment item. Be patient you will succeed. Some topics are easy some are hard. The program is presented to each in an individual way depending on your skills and abilities. No one will be at the same place at the same time.

Finally, if you must be absent please notify me by e-mail, call or text in advance or through Aleks platform. Please see student handbook for attendance policy.