



## Syllabus: **Math 082 Basic Mathematics**

### Course Information

Course Prefix/Number: Math 082	Credit Hours: 3
Semester: Fall 2015	Course Title: Basic Mathematics
Class Days/Times: Tuesday – Thursday 1:15 PM to 2:30 PM	Room: Main Campus A-3

<b>Instructor Information:</b> Name: Jorge Guarin	Phone/Voice Mail: (520) 383-0101 E-mail: <a href="mailto:jguarin@tocc.edu">jguarin@tocc.edu</a> Office location: Main Campus Building A Office hours: To Be Determined
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### 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.
15. Find square roots of square integers.

### Student Learning Outcomes (SLOs) :

#### After completion of the course students will be able to

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

**Texts and Materials:** Required Text: Basic College Mathematics, 12th Edition (eBook), by Bittinger. ISBN-13: 9780321925091. Publisher: Pearson. Checking out and returning an iPad is a requirement to obtain a grade in this class. APPS: The “Free GraCalc”, “My script calc” and “Google Drive” apps are recommended.

### Evaluation and Grading & Assignments:

#### Attendance:

The attendance policy for this class is simple. You are all adults who have in some form paid for this class. If you do not wish to come to any session, you do not have to attend. However, you are still responsible for completing work on time. If you are late for class, enter quietly and sit down. You will not be allowed to make up any quiz you miss because of tardiness. In case of a valid emergency, contact the instructor using the information given on the first page. After filling out an absence form, the instructor will decide whether or not the work missed can be made up.

**Academic Integrity:** Violations of scholastic ethics are considered serious offenses by Tohono O’odham Community College, the Mathematics Department, and by your instructor. Students may consult the TOCC Student Handbook sections on student code of conduct, on scholastic ethics and on the grade appeal procedure.

[a] All homework can be done independently or with other students. The purpose of homework is to develop critical thinking skills and also to develop specific skills related to teaching mathematics by repeated practice of these skills. Without this practice most students find it impossible to perform well in this class. No collaboration is tolerated during exams in-class exams.

[b] Students are expected to abide by the Student Code of Conduct and the Scholastic Code of Conduct found in the Tohono O’odham Community College Student Handbook. Copies are available at the main student bookstore.

#### Course Feedback:

All materials submitted will be graded and returned the next class period after they are submitted.

#### Homework Policy:

Homework will be assigned each class period and is due at the beginning of the next class period before the quiz. The solutions to all odd-numbered problems in the text are given in the back of the textbook. Homework sets will contain both even and odd-numbered problems. Late homework will not be accepted unless the student has made an arrangement with the instructor before it is to be turned in.

#### Withdrawals:

Please be sure to withdraw yourself by **October 26, 2016** if you do not expect to complete the class, otherwise you may receive an "F" grade.

#### Workload:

Students are expected to spend an average of 18 hours per week attending class sessions, doing assignments and preparing for exams. The standard Carnegie Unit of college credit assigns one credit hour for each 15 hours of class time and assumes that students spend two hours working outside the classroom for each hour of classroom instruction. For a three-credit semester course, this translates to an average of 12 hours spent outside of class weekly for 8 weeks.

### Grading System/Policies:

Your final grade will be calculated as follows:		<b>Grading Scale</b>	
homework assignments	400 points	A =	1500 - 1350 points
6 quizzes	200 points	B =	1349 - 1200 points
6 tests	400 points	C =	1199 - 1050 points
1 Final Project	100 points	D =	1049 – 900 points
1 Final Exam	400 points	F =	below 900 points
<u>Total possible</u>	<u>1500 points</u>		

**Incomplete (I) grade:**

To receive an "I" grade, you must have finished at least 3/4 of the course requirements and specifically request the grade. Please call before the last week of class to be sure that there is sufficient time to consider your request. An incomplete grade generally implies that a student has shown sufficient initiative to complete the course on his or her own. You will receive a copy of the standard "I" form filed with the grade. This form details specifically what must be done to complete the course. A student has one year to complete the required work, after which the grade automatically reverts to an "F."

**Make-up Assignments:**

No make-up assignments will be given and no late assignments will be accepted unless the student has made prior arrangements with the instructor.

**Extra Credit Opportunities:** There is **NO** extra credit.

**Final Grades:** Students will receive a grade transcript from the college mailed to the address given with registration materials at the end of the semester when all grades have been recorded.

**SPECIAL NOTE TO STUDENT:** For privacy and security reasons, instructors are advised **NOT** to give grades over the telephone.

**DISCLAIMER:** This syllabus is designed to evolve and change throughout the semester based on class progress and interests. You will be notified of any changes as they occur.

## Class Activities

#	Day	Date	Sections	Hw Due	Test
1	Tuesday	8/16/2016	1.1 - 1.2	Pre-Qz1	
2	Thursday	8/18/2016	1.3 - 1.4	1.1-1.2	
3	Tuesday	8/23/2016	1.5 - 1.6	1.3-1.4	
4	Thursday	8/25/2016	1.7 - 1.8	1.5-1.6	
5	Tuesday	8/30/2016	1.9 - Review Chap 1	1.7-1.9	
<b>6</b>	<b>Thursday</b>	<b>9/1/2016</b>	<b>1.1 - 1.9</b>	<b>Quiz 1</b>	<b>Chap 1</b>
7	Tuesday	9/6/2016	2.1 - 2.2	Pre-Qz2	
8	Thursday	9/8/2016	2.3 - 2.4	2.1-2.2	
9	Tuesday	9/13/2016	2.5 - 2.6	2.3-2.4	
10	Thursday	9/15/2016	2.7 - Review Chap 2	2.5-2.7	
<b>11</b>	<b>Tuesday</b>	<b>9/20/2016</b>	<b>2.1 - 2.7</b>	<b>Quiz 2</b>	<b>Chap 2</b>
12	Thursday	9/22/2016	3.1 - 3.2	Pre-Qz3	
13	Tuesday	9/27/2016	3.3 - 3.4	3.1-3.2	
14	Thursday	9/29/2016	3.5 - 3.6	3.3-3.4	
<b>NC</b>	<b>Tuesday</b>	<b>10/4/2016</b>	<b>St. Francis Day - No Class</b>		
15	Thursday	10/6/2016	3.7 - Review Chap 3	3.5-3.7	
<b>16</b>	<b>Tuesday</b>	<b>10/11/2016</b>	<b>3.1 - 3.7</b>	<b>Quiz 3</b>	<b>Chap 3</b>
17	Thursday	10/13/2016	4.1 - 4.2	Pre-Qz4	
18	Tuesday	10/18/2016	4.3 - 4.4	4.1-4.2	
19	Thursday	10/20/2016	4.5 - 4.6	4.3-4.4	
20	Tuesday	10/25/2016	4.7 - Review Chap 4	4.7	
<b>21</b>	<b>Thursday</b>	<b>10/27/2016</b>	<b>4.1 - 4.7</b>	<b>Quiz 4</b>	<b>Chap 4</b>
22	Tuesday	11/1/2016	5.1 - 5.2	Pre-Qz5	
23	Thursday	11/3/2016	5.3 - 5.4	5.1-5.2	
24	Tuesday	11/8/2016	5.5	5.3-5.4	
25	Thursday	11/10/2016	Review Chap 5	5.5-5.6	
<b>26</b>	<b>Tuesday</b>	<b>11/15/2016</b>	<b>5.1 - 5.5</b>	<b>Quiz 5</b>	<b>Chap 5</b>
27	Thursday	11/17/2016	6.1 - 6.2	Pre-Qz6	
28	Tuesday	11/22/2016	6.3 - 6.4	6.1-6.2	
<b>NC</b>	<b>Thursday</b>	<b>11/24/2016</b>	<b>Thanksgiving - NO CLASS</b>		
29	Tuesday	11/29/2016	6.5 - 6.7	6.3-6.4	
30	Thursday	12/1/2016	Review Chap 6	6.5-6.7	
<b>31</b>	<b>Tuesday</b>	<b>12/6/2016</b>	<b>6.1 - 6.7</b>	<b>Quiz 6</b>	<b>Chap 6</b>
<b>FE</b>	<b>Thursday</b>	<b>12/8/2016</b>	<b>1.1 - 6.7</b>		<b>Final Exam</b>

## Acknowledgment of Receipt of Syllabus

Please read, sign and return the following acknowledgment to me in class, *or* return to me at the following address:

Jorge Guarin  
Tohono O'odham Community College  
P.O. Box 3129  
Sells, AZ 85634

- I have received my MAT 082 syllabus (including course objectives, policies, requirements and schedule) and have read and understood all the enclosed materials
- I have no objection to receiving an occasional call from the instructor at the number given with my registration materials.
- I prefer that the instructor not call or contact me by phone anytime during the semester.

My reason(s) for taking this course:

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My background in this area includes:

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- I would like to be contacted by the instructor regarding the following concerns:

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Print Name Clearly Here

Sign Name Here

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Student ID Number

Telephone Number

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Current Mailing Address/City/State/Zip

E-mail Address