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## Syllabus: ***MAT 089: Elementary Algebra***

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<b>Course Information</b>	
Course Prefix/Number: MAT 089	Credit Hours: 4
Semester: Fall 2019	Course Title: Elementary Algebra
Class Days/Times: MW 9am-11:45am	Room: Komckuḍ 'E-was:'osidk Maščamakuḍ (Central Campus), Building 300, Rm 303

<b>Instructor Information:</b> Name: Kimberly Danny, M.S.	Work Phone: (520) 383-0040 Ext 1040 Cell: (928) 380-5536 – Texts only E-mail: kdanny@tocc.edu Office location: Hamascamdám Ha-Ki: Room 121 Office hours: MW 3:30-5 pm   TR 12:45-1:45 pm   or by appointment
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<b>Course Description:</b> This course transitions from arithmetic to algebra, which includes signed numbers, order of operations, polynomials, fractions, linear equations, area and perimeter, decimals, percent, and ratio and proportion. It includes an introduction to algebra, including the real number system, algebraic expressions, linear equations and inequalities, integer exponents, simple rational expressions and square roots. The course includes an introduction to measurement and mathematical modelling of relationships among variables.
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<b>Student Learning Outcomes</b> After completion of the course students will be able to: <ol style="list-style-type: none"><li>1. Simplify and perform operations with signed numbers, arithmetic and algebraic expressions, understand various uses of constants and variables to represent quantities or attributes, demonstrate operation sense and communicate verbally, graphically and symbolically the effects of common operations on numbers.</li></ol>
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2. Solve linear equations with rational coefficients. Construct and use equations to represent relationships involving one or more unknowns or variable quantities to solve problems.
3. Plot points and graph linear equations on the Cartesian coordinate system. Describe the behavior of linear models using words, algebraic symbols, graphs and tables. Use appropriate terms and units to describe rate of change ex. describe the rate of change using appropriate units: slope for linear relationships or average rate of change over an interval for nonlinear relationships.
4. Compare relationships represented in different ways.
5. Be able to use and interpret percentages in a variety of contexts including, but not limited to: Parts to whole comparisons, decimal representations of percentages, quantifying risks and other probabilities, rates, change, and margins of error.
6. Create (mathematical) models of situations, including representations such as tables, graphs, equations and words, using multiple variables to represent quantities and attributes. Furthermore, students will describe why these tools are a useful strategy for understanding the world, along with their limitations.
7. Critically evaluate statistics being presented in a media report including: identifying the reference value for a reported percentage, evaluating the sampling strategy, determining sources of bias, describing the difference between correlation and causation, identifying confounding variables.

### **Course Structure:**

You will find the format of this class to be a bit different than most. This course will be operating on a combination of group activity, discussions and rarely traditional lecture that will enhance the student's knowledge of mathematical concepts. You will have ample time in class to do homework, but some of this work will need to be done outside of class.

### **Texts and Materials:**

1. Quantway Pathway (with 1-year digital access) printed text Core and College combo, ISBN 9781975024130. You will receive these books for free. You will use the same book for both MAT 089 and MAT 142H. I am willing to mail you a pdf of same on request.
2. A calculator is required.

### **Prerequisites and Destinations – Please Read Carefully:**

To be in this class, you must have passed math 082 or 086 here, at Pima Community College, or at San Carlos Apache College with a C or better (equivalent courses within Arizona will be considered), or

- tested into this class with a score in either COMPASS (at least 32 in Prealgebra) or successor Accuplacer (at least 25 in Elementary Algebra), or
- obtained permission of the instructor, usually after review of previous coursework

It is strongly recommended that you have either placed above by placement test, and/or passed IRW 070 Integrated Reading and Writing -- below that level, and you will find that what I expect for reading and writing in this course to be extremely challenging. I have documentary proof of students below that reading level failing or dropping this course

### Evaluation and Grading & Assignments:

Percentage of Points	Grade
100 – 90	A
89 – 80	B
79 – 70	C
69 – 60	D
59 & below	F

Your grade will be determined by the following:

Evaluation	Points	Percentage of Points
Exams	3 x 100 points	30%
Homework	30 x 10 points	30%
Attendance & participation	30 x 10 points	30%
Final Exam	100 points	10%
<b>Total</b>	<b>900</b>	<b>100%</b>

### Himdag Cultural Component:

Tohono O’odham traditions and cultural beliefs will be discussed as relevant course topics, and only as appropriate to the Tohono O’odham Nation’s traditional standards for sharing information as determined by the Himdag committee.

### Policies and Expectations:

**Course Policies Requirements:** (1) **Attend class regularly;** (2) Complete in-class and out-of-class assignments and submit to the instructor; (3) Attend all labs and field trips; (4) Take all exams (5) Complete all class projects & presentations.

#### Course Policies:

1. Students are expected to attend each class., arriving on time, except in the case of an excused emergency.
2. Students are expected to contact instructor prior to absences, coming late to class or leaving early.

3. Unexcused late arrivals or early departures will count against attendance record.
4. Class participation and preparation are essential to student success. Students must read textual material, prepare for projects, complete required research as stated on the course schedule.
5. Students are expected to come to class prepared for class and having done any preliminary work required as per the course schedule.
6. No cell phone use is allowed during class. Use of cell phones during class, unless permitted by instructor, is a violation of the T-So:son.
7. Late work is marked down 10 points for each day of tardiness.
8. Failure to submit a project results in a grade of zero (0). An F (~60 pts) is a better grade than a 0.
9. No work accepted after the last class.

### **Attendance Policy**

You are expected to arrive to class on time and be prepared to participate in each class period. Four unexcused absences may result in withdrawal and a "W" or "Y" will be recorded. You may request to be excused from class for religious observances and practices, for illness, for school or work-related travel or for personal or family emergency. If you will be absent, please notify the instructor as soon as possible (approved by Faculty Senate April 2014).

**Make-up policy:** Missed exams can be made up within two days of the exam date. Late assignments that can be made up will be accepted but will be penalized 25%. Laboratories cannot be made up. At the instructor's discretion, extra credit opportunities and optional activities may be provided.

### **Classroom Behavior:**

- Because of insurance limitations, non-registered visitors are not allowed at class sessions or on field trips.
- Possession of drugs, alcohol or firearms on college property is illegal.
- Food and beverages are allowed in classrooms.
- Pets, telephones, pagers and other electronic devices that distract students are not allowed in classrooms. Phone use during class will result in removal from the class for the rest of the period. iPads can be used during class for projects and labs, but may not be used during lecture
- Students creating disturbances that interfere with the conduct of the class or the learning of others will be asked to leave.

**Academic Integrity:** Violations of scholastic ethics are considered serious offenses by Tohono O'odham Community College, the Student Services 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. Copies are available at Tohono O'odham Community College.

All work done for this class must be your own. While you may discuss assignments with other class members, the final written project must clearly be

your own. You may use work from books and other materials if it is properly cited. Copying from a book without proper reference or from a person under any circumstances will result in an "F" for the assignment, and at the instructor's discretion, possibly an "F" for the course.

### **Incomplete Policy**

Incomplete (I) grades are not awarded automatically. The student must request an "I" from the instructor who can choose to award an Incomplete only if all three of the following conditions are met:

1. The student must be in compliance with the attendance policy.
2. There must be an unavoidable circumstance that would prohibit the student from completing the course.
3. The student must have completed over 75% of the course requirements with at least a "C" grade.

Incompletes are not a substitute for incomplete work due to frequent absences or poor academic performance. Incomplete grades that are not made up by the end of the ninth week of the following Spring or Fall semester will be automatically changed to an F if the agreed upon work, as stipulated on the written form signed by the instructor and the student when the I grade is awarded, is not completed.

### **Course Feedback:**

All assignments, written papers and quizzes will be graded and returned to the students one week after the assignment is due. E-mail and phone messages will be returned within two days. A student or the instructor may request a student conference at any time during the semester. Quarterly grade reports will be provided to each student, either in person, by email or via the electronic system of Canvas.

### **Instructor Withdrawals**

Students who have missed four consecutive classes (or the equivalent) and have not submitted any assignments nor taken any quizzes by the 45th day census report, due on October 3, 2019 are assumed NOT to be participating in the class and may be withdrawn at the faculty member's discretion.

### **Student Withdrawals**

Students may withdraw from class at any time during the first 2/3 of the semester without instructor permission and without incurring any grade penalty. Please be sure to withdraw yourself by November 4, 2019 if you do not expect to complete the class, otherwise you may receive an "F" grade.

### **Special Withdrawal (Y) Grade**

The "Y" grade is an administrative withdrawal given at the instructor's option when no other grade is deemed appropriate. Your instructor must file a form stating the specific rationale for awarding this grade. "Y" grades are discouraged since they often affect students negatively. Your instructor will not award a "Y" grade without a strong reason

**Reasonable Disability Accommodations (Americans with Disabilities Act):**

TOCC seeks to provide reasonable accommodations for all qualified individuals. The College will comply with all applicable federal, state and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to provide an equal educational opportunity. It is the student's responsibility to make known to the appropriate administrator that his or her specific needs in order to determine reasonable accommodations. We will work together in order to develop an Accommodation Plan specifically designed to meet the individual student's requirements.

**Title IX**

Tohono O'odham Community College faculty and all staff are dedicated to creating a safe and supportive campus. Title IX and our school policy prohibit discrimination on the basis of sex- this includes sexual misconduct; harassment, stalking, domestic and dating violence and sexual assault.

Sexual discrimination and sexual violence can undermine students' academic success and quality of life on campus and beyond. We encourage students who have experienced any form of sexual misconduct to talk about their experience and seek the support they need.

Confidential support and academic advocacy can be found with: Student Services

**Course Outline:**

**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.

Date	Section	In-Class	Homework
<b>Week 1</b>			
1. Mon 8/19	1.1	Syllabus, Intro to quantitative reasoning	
2. Wed 8/21	1.2		
<i>Fri 8/23</i>	<i>Last day to add/drop without instructor's signature</i>		
<b>Week 2</b>			
3. Mon 8/26	1.3		
4. Wed 8/28	1.4		
<i>Fri 8/30</i>	<i>Last Day to add/drop with instructor's signature</i>		
<b>Week 3</b>			
<i>Mon 9/2</i>	<i>Labor Day – College closed</i>		
<i>Tues 9/3</i>	<i>Last day to drop/full refund</i>		
5. Wed 9/4	1.5		
<b>Week 4</b>			
6. Mon 9/9	1.6, 1.7		
7. Wed 9/11	1.8, 1.9		
<b>Week 5</b>			

8. Mon 9/16		Review	
9. Wed 9/18		Module 1 Exam	
Week 6			
10. Mon 9/23	2.1, 2.2		
11. Wed 9/25	2.3, 2.4, 2.5		
9/27	<i>O'odham Tas – College Closed</i>		
Fall Break			
9/30 – 10/3	<i>Fall Break – No Class</i>		
10/4	<i>St. Francis Day – College Closed</i>		
Week 7			
12. Mon 10/7	2.6		
13. Wed 10/9	2.7		
Week 8			
14. Mon 10/14	2.8		
15. Wed 10/16		Review	
Week 9			
16. Mon 10/21		Module 2 Exam	
17. Wed 10/22	3.1		
Week 10			
18. Mon 10/28	3.2		
19. Wed 10/30	3.3		
Week 11			
11/4	<i>Withdrawal Deadline</i>		
20. Mon 11/4	3.4		
21. Wed 11/6	3.5		
Week 12			
Mon 11/11	<i>Veterans Day – College Closed</i>		
22. Wed 11/13	3.6		
Week 13			
23. Mon 11/18	3.7, 3.8		
24. Wed 11/20		Review	
Week 14			
25. Mon 11/25		Module 3 Exam	
26. Wed 11/27	4.1		
11/28 -11/29	<i>Thanksgiving Break – College Closed</i>		
Week 15			
27. Mon 12/2	4.2		
28. Wed 12/4	4.3		
Week 16			
29. Mon 12/9		Review	
30. Wed 12/11		Comprehensive Final Exam	