



## **MAT 089: Elementary Algebra 4 Units (Credit Hours) Summer 2022 Online Asynchronous Class**

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### **Instructor Information and Communication Information:**

**Instructor:** Md Mobarak Hossain, PhD (please address me by Mobarak)

**Office:** TOCC Phoenix Center

#### **Virtual (on Zoom) Office Hours:**

MW: 12:00pm-12:55pm or by appointments.

#### **Zoom Link:**

<https://zoom.us/j/3130740399?pwd=bmFVQTZ1UE5lUldqNmYzclo0aHYwQT09>

**Communication:** My primary method for communicating with you will be the **Announcement/email tool on Canvas**. You are expected to check Canvas every day for important course-related information.

**Email:** Please contact me through Canvas if you have a general question or a question on the material. I will reply to emails within 24 hours Monday through Friday, and 48 hours on the weekends. If you have a question about grades, please discuss in office hours.

### **Class Procedures:**

This class will be delivered entirely online in the asynchronous mode. You will be required to access materials, complete activities, assignment, and pre-recorded video lectures online via Canvas.

### **COURSE DESCRIPTION:**

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.

**PREREQUISITES:** Prerequisite: MAT 082, MAT 86 or placement test equivalent Credits.

### **Texts and Materials:**

Good news: your textbook for this class is available for free online, in web view and PDF format! You can also purchase a print version, if you prefer, via the campus bookstore or from OpenStax on Amazon.com.

You can use whichever formats you want. Web view is recommended -- the responsive design works seamlessly on any device. If you buy on Amazon, make sure you use the link on your book page on openstax.org so you get the official OpenStax print version. (Simple printouts sold by third parties on Amazon are not verifiable and not as high-quality.)

Elementary Algebra 2e from OpenStax, Paperback ISBN-13: 978-1-975076-46-7, Digital ISBN-13: 978-1-951693-20-6,  
[https://assets.openstax.org/oscms-prodcms/media/documents/ElementaryAlgebra2e-WEB\\_EjIP4sI.pdf](https://assets.openstax.org/oscms-prodcms/media/documents/ElementaryAlgebra2e-WEB_EjIP4sI.pdf)

### **Student Learning Outcomes:**

Upon completion of this course, students will be able to:

- Define absolute value and graph real numbers on the number line.
- Perform operations on signed numbers
- Apply the laws of mathematics to arithmetic and algebraic expressions.
- Apply the order of operations to arithmetic and algebraic expressions.
- Simplify and evaluate arithmetic and algebraic expressions.
- Translate percentage problems into algebraic equations and solve them.
- Solve ratio and proportion problems.
- Plot points and graph linear equations
- Demonstrate measurement sense including units, precision, accuracy and error.
- Add, subtract, multiply and divide numbers in the real number system.
- Graph and solve linear equations and inequalities.
- Add, subtract, multiply, divide and factor polynomials.
- Add, subtract, multiply and divide rational expressions.
- Evaluate statistics presented in a news story

### ***Himdag Cultural Component:***

This course will examine the effects and influence on the Tohono O’odham Nation and Culture of the American National Government.

### **Student Withdrawals:**

Students may withdraw from class at any time by the 31<sup>st</sup> of May 2022 without instructor permission and without incurring any grade or financial penalty. Please be sure to withdraw yourself by [*withdrawal deadline date found in Academic Calendar on TOCC website*] 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

### **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. The student must have 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 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.

### **ADA Statement:**

#### **Reasonable Disability Accommodations:**

TOCC seeks to provide reasonable accommodations for all qualified individuals with disabilities. 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 instructor 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 Syllabus statement:**

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.

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

### **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, or the original work of your group. While you may discuss assignments with other class members, the final written project must clearly be original. 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. If you are uncertain about proper citations, ask your instructor or the librarian.

### **Course Requirements:**

**Grades:** Your course grade will be based upon a comprehensive final exam, two midterm exams, and homework. **I have typically received emails (from only about 5% of students) asking for higher grades for reasons not allowed on the syllabus (e.g. someone really needs an A to keep their GPA above a certain level). I will not and cannot make such special considerations as it would involve me not treating all students equally.**

- Homework: 35%
- Midterm I: 20%
- Midterm II: 20%
- Final Exam: 25%
- **Total possible points 100 out of 100.**

**Homework (35% of total grade):** I will be assigning online homework assignments that will be due mostly Sunday evenings starting at the beginning of the first week. I encourage you to collaborate with one another on the homework assignments. Please check Canvas often to keep up with any changes in the homework schedule. Late homework will not be accepted. I realize that computers crash, internet connections go down, emergencies happen etc. Therefore, I will have Canvas drop at least your **two** lowest scores. I consider this to be a very generous policy and it is unlikely that I will make any other accommodations regarding the homework unless I am required to by TOCC policy.

**Midterm Exams (40% of total grade):** You will have two midterm exams. However, your final exam score will replace the score on the lowest midterm score if the lowest midterm is lower than the final exam score. I will provide more details on this throughout the semester.

**Final Exam (25% of total grade):** Your final exam will cover all materials that we will cover over the semester. The final exam is not optional and must be taken in the scheduled period unless required to be rescheduled by TOCC Policy. Failure to take the final exam will almost certainly result in a grade of F for the course. I will provide more details on this throughout the semester as well.

### **Exam Schedule (tentative)**

**Midterm I will be available from Jun 6, 2022 to Jul 12, 2022.**

**Midterm II will be available from Jun 27, 2022 to Jul 3, 2022.**

**The Final Exam will be available from Jul 11, 2022 to Jul 18, 2022.**

**Course Evaluations:** The course evaluations are very important to help me receive feedback on this course. My best source of information about aspects of the course such as the pace, the difficulty of material included, how interesting different chapters are, reception to course policies etc. is the feedback that I receive through the evaluations. This feedback is very much appreciated and helps to benefit future students. To incentivize participation on a class level, I will provide an extra drop of a homework if the class meets certain participation thresholds.

### **Grading Criteria, Scale, and Standards:**

The text below describes the **MAXIMUM** overall average percentage in the class needed for each letter grade. In other words, if you earn for example an 80% you will earn at least a B in the class, regardless of how well other students do. I will not curve any individual items, but this scale may be adjusted at the end of the semester to make it more generous at my discretion depending on how the class as a whole does.

A: Greater or equal to 90%

B: 80% to <90%

C: 70% to <80%

D: 60% to <70%

F: Less than 60%

### Late Work or Make-up Exams Policies:

*As stated above, I will not accept late homework or reschedule exams unless required to by TOCC policy. However, I provide what I believe to be very generous policies in which I will have Canvas drop some homework and also allow a higher final exam score to replace lower midterm exam score. The policies are detailed above under “course requirements”.*

### Course Calendar/Topics Outline:

**Modules will be available on Canvas. Expect at least homework per chapter. Homework assignments will typically be due Sundays. please check Canvas daily to make sure you are not missing any assignments!**

### Tentative Schedule:

Week 1	May 23-29, 2022	Chapter 1
Week 2	May 30 – Jun 5, 2022	Chapter 2
Week 3	Jun 6- 12, 2022	Chapter 3 & <b>Midterm I</b>
Week 4	Jun 13-19, 2022	Chapter 4
Week 5	Jun 20-26, 2022	Chapter 6
Week 6	Jun 27-Jul 3, 2022	Chapter 7 & <b>Midterm II</b>
Week 7	Jul 4-Jul 10, 2022	Chapter 8
Week 8	Jul 11-17, 2022	Chapter 9, 10 & <b>Final Exam</b>
<b>Comprehensive Final Exam is Due by Jul 18, 2022</b>		

### Important Dates:

First Day of Instruction: May 23, 2022

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Memorial Day – **College Close:** May 30, 2022

Drop/Full Refund Deadline: May 31, 2022

Independence Day - **College Closed:** Jul 4, 2022

Last Day of Instruction: Jul 18, 2022

For more: [https://tocc.edu/wp-content/uploads/2021/03/2021-2022-Academic-Calendar-3-24-2021\\_MSC.pdf](https://tocc.edu/wp-content/uploads/2021/03/2021-2022-Academic-Calendar-3-24-2021_MSC.pdf)

**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.