MA115-01 College Algebra (**O-ASY; SYN Test 1,2,3**) Fall 2024

Synchronous Test 1,2,3 (Sep 20, Nov 1, Dec 6) 5:00-6:30pm on Moodle

Online Quiz: due Fri 11:55pm (See schedule)

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Moodle: (key: algebra)
(1) This section of MA115 is
    O-ASY (= fully online where students are not required to log into Moodle at a specified time)
    except Synchronous Test 1,2,3 on Moodle
(2) Online Quiz due Fri 11:55pm
(3) When you have trouble with Moodle, call 735-2620, or email to moodlehelp@triton.uog.edu
    When you have questions on math, contact the instructor of course.

Office Hours: MTWTh 10:30-12:00 (F2F) and appointment (F2F/Online)

Text: No text required. Read instructor's Note.

Grades: The total number of points available is 400. Grades will be no lower than those set forth in the following table. Student's work is usually graded on a partial credit basis. Student's written solutions must include all work needed in order to solve problems. Points will be deducted (or given none) for omitting any work even if the answer is correct.

Quiz	100pt
Test 1	100pt
Test 2	100pt
Test 3	100pt

A+	98-100 %
B+	87-89 %
C+	77-79 %

A	93-97 %
B	83-86 %
C	70-76 %
D	60-69 %
F	0-59 %

A−	90-92 %
B−	80-82 %

How to Study:

(A) Watch **Video Lecture by instructor**.
    Linked from Moodle to help you understand the key idea. Most of the lectures are less than 10 minutes.

(B) Read **Note by instructor**. Make sure you read Note before you try Pre-Quiz.

(C) Try **Pre-Quiz**. Pre-Quiz is similar to Online Quiz.

(D) Watch **Optional Video** if you need more explanation.

(E) | **Online Quiz due Fri 11:55pm** |

No make-up. Instead **THREE** lowest Quiz scores will be dropped. The main purpose of the Quiz is to let you prepare for "bigger" Tests. Do not worry too much about missing or low score on a single Quiz. However, you must do well on Test 1,2,3.

(F) Ask questions on **Public Q & A**. Ask **Individual** questions to the instructor by message, e-mail & OH. Make an appointment if need help outside of OH.

(G) ⟨Synchronous Test 1,2,3 on Moodle⟩

You must show all your work. No make-up for Tests. All notes and the textbook are prohibited from use. It is crucial to do well on Tests. Missing any **<u>SINGLE</u>** Test will result in **Course Grade F** regardless of your total points. Very special circumstances will be handled very specially by consultation with the instructor. Except for true emergencies, these special cases are arranged in advance with the instructor.

Calculator: No calculator allowed until **Test 1**. You may use a calculator for **Test 2 & 3**. You need a calculator having log key for **Test 3**. However, calculators which can do symbolic computation (e.g. TI-89) are **not** allowed. **PC/Mac/Tablet/Cell Phone calculator is not allowed.**

Catalog Description: This course prepares students for MA161a-b or MA165. Topics include polynomial equations; radical expressions; systems of equations and inequalities; functions; inverse functions; graphing; rational, exponential, and logarithmic functions; and application problems. This course satisfies the GE requirement. *It is intended for those students who continue their studies in mathematics after completing this course.* Prerequisite: grade of C or better in MA085B completed within the previous 3 semesters, or placement.

Rational for Offering Course: The course prepares students for success in MA161a, and MA165. The student is asked to solve problems similar to those encountered in Elementary Algebra, but at a more sophisticated, more difficult level. This helps the student to absorb and understand the underlying concepts better and to feel more comfortable with the material. It also improves retention of basic algebraic techniques and ideas. Intermediate Algebra is the course in which students are introduced to inverse functions, exponential functions, and logarithmic functions. A basic understanding of these concepts is critical for success in any college level mathematics course, as well as in physics, chemistry, economics, biology, and many other subjects.

Academic Integrity: All assignments and Quiz/Test/Exam must be your own work. The term "plagiarism" includes, but is not limited, to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgment. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials. Plagiarizing in your essay or **<u>CHEATING</u>** on Quiz/Test/Exam will result in **<u>Course Grade F</u>** regardless of your total points. Academic Integrity is about performing in your role as student in ways that are honest, trustworthy, respectful, responsible, and fair (see www.academicintegrity.org for more information). As a student, you will complete your academic assignments in the manner expected by the instructor. Academic dishonesty, including but not limited to cheating and plagiarism may result in suspension or expulsion from the University. Refer to the UOG Student Handbook and Code of Conduct for more information.

Notification of Rights Under FERPA: The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights for students, parents and school officials can be viewed at http://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html.

Tobacco-free campus: UOG is a tobacco-free/smoke-free, vaping/e-cigarette free campus. Thank you for not using tobacco products or e-cigarettes on campus, for helping to fight cancer, and for helping make UOG a healthy learning and living environment.

DSS Accommodation: For individuals covered under the ADA (Americans with Disabilities Act), if you are a student with a disability requiring academic accommodation(s), please contact the Disability Support Services Office to discuss your confidential request. A Faculty Notification letter from the Disability Support Services counselor will be provided to me. To register for academic accommodations, please contact or visit Sallie S. Sablan, DSS counselor in the School of Education, office 110, disability-support@triton.uog.edu or telephone/TDD 671-735-2460.

Curriculum Mapping:

Course SLOs	Math PLOs	UOG ILOs	Method of Assessment
SLO 1	PLO 1,4	ILO 1,2	Questions on assignments, Quizzes, and Tests
SLO 2	PLO 1,4	ILO 1,2	Questions on assignments, Quizzes, and Tests
SLO 3	PLO 1,3,4	ILO 1,2	Questions on assignments, Quizzes, and Tests
SLO 4	PLO 1,3,4	ILO 1,2	Questions on assignments, Quizzes, and Tests
SLO 5	PLO 1,2,3	ILO 1,2,3,5	Questions on assignments, Quizzes, and Tests

(Course SLOs)
SLO 1: Demonstrate enhancement of basic fluency, in routine operations of elementary algebra.
SLO 2: Graph and sketch linear, quadratic, polynomial, rational, exponential and logarithmic functions.
SLO 3: Show facility with the analytic treatment of linear, quadratic, polynomial, rational, exponential and logarithmic functions.
SLO 4. Exhibit evidence of a through acquaintance with exponential and logarithmic functions and with applications of these functions in such fields as the mathematics of personal finance, biology and physical science.
SLO 5. Formulate equations from quantitative data, given verbally; use learned algebraic methods to solve simultaneous sets of linear equations, to include the introductory use of elementary matrix methods.

(Math PLOs)
PLO 1: Demonstrate critical thinking, problem solving skills and ability to use mathematical methods by identifying, evaluating, classifying, analyzing, synthesizing data and abstract ideas in various contexts and situations.
PLO 2: Exhibit a sound conceptual understanding of the nature of mathematics, and demonstrate advanced mathematical skills in mathematical analysis, modern algebra and other mathematical discipline(s).
PLO 3: Argue and reason using mathematics, read, create and write down logically correct mathematical proofs, use exact mathematical language and communicate mathematics efficiently orally, in writing and using information technology tools.
PLO 4: Apply abstract thinking, mathematical methods, models and current practices in the sciences, including state-of-the-art mathematical software, to solve problems in theoretical mathematics or in a diverse area of mathematical applications.
PLO 5: Show maturity in mathematical knowledge and thinking that prepares and encourages students to pursue graduate studies in mathematics or in related fields.
PLO 6: Demonstrate an appreciation of and enthusiasm for inquiry, learning and creativity in mathematical sciences, a sense of exploration that enables them to pursue lifelong learning and up-to-date professional expertise in their careers through various areas of jobs, including governmental, business or industrial jobs in mathematics, related sciences, education or technology.

(UOG ILOs)
ILO 1: Mastery of critical thinking & problem solving
ILO 2: Mastery of quantitative analysis
ILO 3: Effective oral and written communication
ILO 4: Understanding & appreciation of culturally diverse people, ideas & values in a democratic context
ILO 5: Responsible use of knowledge, natural resources, and technology
ILO 6: An appreciation of the arts & sciences
ILO 7: An interest in personal development & lifelong learning