Course: MA 115-05 Introductory College Algebra
Semester: FANOMNAKAN (Spring) 2020
Meetings: TTH 9:30-10:50 (via Big Blue Button)
Instructor: Michael Herreros, B.S. Mathematics
Email: herrerosm6050@triton.uog.edu
Office Hours: By appointment (via Big Blue Button)

Online:
Taking online classes is very different from taking a traditional face-to-face class. There are certain skills and equipment needed as well as other resources such as Internet access. Here are some things you will need in order to take this class:

- Reliable access to a computer with broadband Internet access. A desktop or laptop computer is highly recommended. Mobile devices such as iPads, Android tablets, and smart phones are not recommended as they may have compatibility issues. You may use them for convenience to view most content for this class, but you should use a full computer for the more important class activities.
- Your computer should also have the following:
  - Mozilla Firefox browser with Cookies enabled and the Pop-up Blocker disabled so that you can access and work in this class. Firefox is the most compatible browser for use with UOG Moodle.
  - Adobe Acrobat Reader so that you can open PDF documents provided in this class.
  - A media player such as Windows Media Player or VLC Player Free so that you can play audio and video files provided in this class.
- You need to be comfortable enough with computers to perform the following tasks without help from anyone:
  - Send and receive email messages as well as send a message with an attachment.
  - Be able to find files on your computer that you have saved or downloaded.
  - Be able to navigate through web pages.
  - Be able to search for items on the Internet by using a search engine.
- Your smart phone/iPad/Android tablet should have the following:
  - Adobe Acrobat Reader so that you have a location on your device to view and save PDFs
  - Adobe Scan (Google Play/App Store) or Scanner App (iPhone/iPad) or your preferred similar app so that you can scan your shown work to upload for credit. Instead of submitting multiple files for one assignment, please combine all related pages into one file. It makes grading easier.
    - Scanner App is limited to 3 PDFs at a time. You can export your PDFs to Adobe Acrobat Reader app to scan new PDFs. I was able to add 8 pages onto one PDF.
    - Adobe Scan is available for both Google Play and App Store. Adobe Scan requires you to create an account to link your PDFs to the Adobe Cloud.
- You need to be self-motivated, disciplined, and you should have good time-management skills. Even though you can access this class at any time of the day on any day of the week, you still need to follow the set course schedule. You need to be able to manage your time and meet deadlines set for the class. **This is not a self-paced class.** For a typical class in a regular 16-week semester, you should be able to commit 6-10 hours per week to your course work. Remember that procrastination can cause you more problems online than in a face-to-face class. There are chances that your computer can crash; your Internet connection can drop; or the UOG Moodle system may become unavailable.
- You will be expected to visit the Moodle course page every other day, preferably TTH between 9:30 AM – 10:50 AM.
- You will be expected to carefully read and follow instructions.
- You will be expected to keep track of deadlines and due dates.
- You will be expected to have all the skills and resources listed above.
- You will be expected to ask for help if and when you need it.

Virtual Classroom Interaction:
There are a number of things to keep in mind with regards to interaction in the virtual classroom.

- Communicating with classmates
    - At any point during this course, you are welcome to contact me via email with questions regarding grades, instructions, advisement, or even for personal issues. I check my email frequently and will typically respond to messages within 24 hours.
    - I have included an "*Questions*" forum in the class where you can post any questions you might have regarding the class. I will post answers to your questions in this forum so that you, and anyone else with the same questions, can always refer back to the forum for answers. Students are also welcomed to provide their own answers and feedback based on their own experience. Such sharing of information allows us all to help each other.
- Communicating with classmates
    - In the virtual classroom, you will see a "Participants" list in the left column. This will include links to all students enrolled in the class. You will be able to send messages through this system or you can send them email messages directly.
- Online Etiquette (aka: Netiquette)
    - Do not SHOUT. Using All Caps when you type is considered to be "shouting" online. Remember to turn off your Caps Lock.
    - Be prompt. Follow class schedules and respond to email messages promptly.
    - No flaming, trolling, or cyber bullying. You are all expected to be respectful and professional. If you have any concerns with classmates, please contact your instructor regarding the problem.
    - Do not dominate any discussion. Give other students the opportunity to join in the discussion.
    - Avoid jokes and sarcasm as these are often misinterpreted online.
    - Always re-read what you type before you send it. Remember that you cannot take back anything that you post. Also remember that people cannot see you or hear you. That means that they cannot see your body language or hear the tone of your voice. They can only rely on what you type. So, try to make sure that what you type cannot be misinterpreted. Be clear and brief.
    - Be patient and open-minded. Do not judge others or jump to conclusions. Remember that, just as others might misunderstand you… you might misunderstand them. If something sounds confusing or offensive, ask for clarification before you jump to conclusions. Never respond out of emotion because what you say online can stay online and may be used against you in the future. Also remember that other students may not be native English speakers and may have difficulty in saying what they really mean online.
    - Respect the privacy of others. Do not post or communicate personal or confidential information in the virtual classroom.
    - Remember that the UOG Moodle system keeps logs of all your activity inside of UOG Moodle.

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: MA085B Level II, completed within the previous 3 semesters, or placement.

Recommended Text:
"ALGEBRA, FORM & FUNCTION", Eric Connally/Deborah Hughes-Hallett et.al, ISBN 978-0470-52143-4, published by Wiley and Sons.

***Learning Objectives for Students*:**

- Demonstrate enhancement of basic fluency, in routine operations of elementary algebra.
- Graph and sketch linear, quadratic, polynomial, rational, exponential and logarithmic functions.
- Show facility with the analytic treatment of linear, quadratic, polynomial, rational, exponential and logarithmic functions.
- 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.
- 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.

Rational for Offering Course:
The purpose of an Intermediate Algebra course is to prepare 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.

Quizzes and Tests:
The primary assessment tools for the evaluation of learning outcomes and for grades are assignments, quizzes, and tests. Assignments will not be collected. Quizzes will be announced a day before administered. Tests will be announced approximately a week before the test is administered. You have only one chance to take each Quiz. If you miss a Quiz, your point for that Quiz is zero. TWO lowest Quiz scores will be dropped. The main purpose of the Quiz is to let you prepare for the "bigger" Tests. Do not worry too much about your low score on a single Quiz.

Grades:
The total number of points available is 400. Grades will be no lower than those set forth in the following table. Students work is usually graded on a partial credit basis. Students 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.

Quizzes (12)	25% or (100pts)
Test 1 (Exam 1)	25% or (100pts)
Test 2 (Exam 2)	25% or (100pts)
Test 3 (Final Exam)	25% or (100pts)
Total	400 points

Each quiz is worth 10 points. I will drop the two lowest quiz scores. No make-up for tests or quizzes.

Final grade:

A =	360 – 400 points
B =	320 – 359 points
C =	280 – 319 points
D =	240 – 279 points
F =	0 – 239 points

Calculators:
A graphing calculator (e.g. TI-83) is required for this course. You are expected to have a working calculator for Quiz/Test After Test 1.

Curriculum Mapping:

Course SLOs	Math PLOs	UOG ILOs	Method of Assessment
SLO 1	MA PR 1 (at basic level)	ILO 1,2 (at basic level)	Tests, Group work discussions
SLO 2	MA PR 1 (at basic level)	ILO 1,2 (at basic level)	Tests, Group work discussions
SLO 3	MA PR 1 (at basic level)	ILO 1,2 (at basic level)	Tests, Group work discussions

Student Learning Outcomes (SLOs)
SLO 1: Perform algebraic operations on integers, fractions, decimals and expression involving variables.
SLO 2: Generate graphs of linear equations, inequalities, and systems of equations.
SLO 3: Use algebraic representations to solve real-life applications and problems.

Program Learning Outcomes (PLOs)
MA PR 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.
MA PR 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).
MA PR 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.
MA PR 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.
MA PR 5: Show maturity in mathematical knowledge and thinking that prepares and encourages students to pursue graduate studies in mathematics or in related fields.
MA PR 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.

Institutional Learning Outcomes (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

Tobacco-Free/Smoke-Free/Vape-Free Campus:
University of Guam is a tobacco-free/vape-free campus. Thank you for not using tobacco/vape products on campus, and for helping make UOG a healthy learning and living environment. http://www.uog.edu/smoke-free-uog

Academic Integrity Policy:
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.

Special Accommodations:
If you are a student with a disability who will require an accommodation(s) to participate in this course, please contact me privately to discuss your specific needs. You will need to provide me with documentation concerning your need for accommodation(s) from the EEO/ADA Office. If you have not registered with the EEO/ADA Office, you should do so immediately at 735-2244/2971/2243 (TTY) to coordinate your accommodation request.

Withdrawal from Course:
Last day for "Voluntary Withdrawal" is **APRIL 15**. You can find the voluntary withdrawal form at https://www.uog.edu/student-services/forms.php Download, complete and sign. Send the form with a photo of your UOG student ID to transcripts@triton.uog.edu using your GoTritons email. Please include me in the email so that I'm aware you are no longer registered in the course.

CollegeNET Course Evaluations:
Course evaluations will be available for students to complete during the three-week period before the semester ends. Spring 2020 course evaluations will be available from **04/27/20 – 05/15/20**. You can access the course evaluations by clicking on "CollegeNET Course Evaluations" in the drop-down log in menu on the University of Guam's website (www.uog.edu). You will need to know your Webadvisor username. Completion of course evaluations may be substituted as extra-credit towards final exam per instructor's discretion and upon proof of completion.

Student Support:
The following is a list of additional resources that students can turn to when they need support.

- Technical problems with UOG Moodle system? Contact the UOG Moodle Help team by email at moodlehelp@triton.uog.edu or by phone at (671) 735-2620.
- Problems with WebAdvisor or GoTritons student email service? Contact the UOG Office of Information Technology (aka: the Computer Center) by email at helpdesk@uog.edu or by phone at (671) 735-2640.

Disclaimer:
This syllabus is subject to change.

MA115 Fañomnåkan – Spring 2020 Schedule

UPDATED: 30 MARCH 2020

Week	Date	Topic	Quiz
12	April 7	Chapter 6	Quiz 5
	April 9	Chapter 6 & 7	
13	April 14	Chapter 8	Quiz 6
	April 16	Chapter 8	Quiz 7
14	April 21	Exam 2 Review	Quiz 8
	April 23	Exam 2	
15	April 28	Chapter 9	
	April 30	Chapter 9	
16	May 5	Chapter 9	
	May 7	Chapter 10	Quiz 9
17	May 12	Chapter 10	
	May 14	Chapter 11	Quiz 10
18	May 19	FINAL EXAM: 10:00 AM-11:50 AM	