UNIVERSITY OF GUAM
UNIBETSEDÅT GUAHAN

COLLEGE OF NATURAL AND APPLIED SCIENCES
DIVISION OF MATHEMATICS AND COMPUTER SCIENCE

FANUCHÅNAN (FALL) 2024

MA-085B Fundamentals of Mathematics
Course Syllabus and Course Calendar

SECTION INFORMATION
Section MA085B-30B
October 14, 2024 – December 10, 2024
Face-to-Face
Monday-Thursday 2:00-3:15PM
Science Building Room 120

INSTRUCTOR INFORMATION
Ms. Katrina Quinata
quinatak@triton.uog.edu (preferred)
Science Building Room 100
671-735-0317
Office Hours: Monday-Thursday 1:30-2:00PM, 3:30-4:00PM or by appointment

COURSE CATALOG DESCRIPTION
This course is a study of the fundamental concepts of high school mathematics, including arithmetic and algebra. This course is lecture-based and designed to provide the background necessary for advancement in mathematics.

Grades for MA085A are A1, B1, C1, D1 or F1. MA085A students must earn a grade of C1, B1, or A1 (or P1) before they can enroll in MA085B. Grades for MA085B are A2, B2, C2, D2 or F2. MA085B students must earn a grade of C2, B2, or A2 (or P2) before they can exit MA085 to enroll in MA110, MA115, or MA151.

Prerequisite: Mathematics Placement Test or C1 or higher in MA085A

COURSE CONTENT
The following are the **9** topics that will be covered in this course.

Topic 10 Polynomials
Topic 11 Factoring
Topic 12 Rational Expressions
Topic 13 More Equations
Topic 14 Linear Equations in Two Variables
Topic 15 System of Linear Equations
Topic 16 Exponents
Topic 17 Radical Expressions
Topic 18 Quadratic Equations

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STUDENT LEARNING OUTCOMES ALIGNMENT MATRIX

Course Student Learning Outcomes	Math Program Learning Outcomes	Institutional Learning Outcomes
SLO 1: Perform algebraic operations on integers, fractions, decimals, and expressions involving variables.	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 (at basic level)	ILO1: Mastery of critical thinking & problem solving ILO2: Mastery of quantitative analysis (at basic level)
SLO 2: Draw graphs of linear equations, inequalities, and systems of equations.	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 (at basic level)	ILO1: Mastery of critical thinking & problem solving ILO2: Mastery of quantitative analysis (at basic level)
SLO 3: Use algebraic representations to solve real-life applications and problems.	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 (at basic level)	ILO1: Mastery of critical thinking & problem solving ILO2: Mastery of quantitative analysis (at basic level)

COURSE REQUIREMENTS

REQUIRED TEXTS

MA085B (green) Fundamentals of Mathematics workbook **3rd edition.**

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GRADING INFORMATION

Final letter grades demonstrating successful completion of MA085B will be **A2, B2, or C2.** Grades of D2 or F2 are *not* passing grades. Students who receive a D2 or F2 will be required to retake MA085B in a subsequent semester. MA085 is a non-degree unit course. Students do not earn credit towards degree for this course, and it does not affect GPA.

COURSE FINAL GRADES

A2	90-100%	261-290 points
B2	80-89%	232-260 points
C2	70-79%	203-231 points
D2	60-69%	174-202 points
F2	0-59%	0-173 points

UW: Unofficial withdrawal assigned by Registrar. Student stopped attending classes and did not submit required documents to the Admissions & Records office.

W: Withdrawal assigned by Registrar. Student stopped attending classes and submitted required documents to the Admissions & Records office.

GRADE CATEGORIES: ASSIGNMENTS AND POINTS EARNED

To determine whether students have achieved the course learning objectives, students will be evaluated and graded as follows. Students will take **9** quizzes. Students will take **2** exams.

Quiz/Exam	Content	Points Earned
Quiz 10-18	Topic 10-18	90
Exam 1	Topic 10-13	100
Exam 2	Topic 14-18	100
	Total	**290**

ASSIGNMENT DESCRIPTIONS

Lectures: Each topic will be discussed face-to-face during the scheduled meeting times.

Homework (Extra Credit): Students are encouraged to submit homework for additional practice. Homework problems are found in the MA085B workbook (3rd edition). Students can earn 1-5 points of extra credit for each exam based on the number of submitted homework.

Quizzes: Each topic will be lectured, discussed, and evaluated. After each topic is lectured, its quiz will be administered. There will be a total of 9 quizzes. No make-up will be given for a missed quiz. Use of calculator or similar device and all notes and workbook are prohibited from use on quizzes. You will need to show all work for the quiz. See course calendar for dates of quizzes.

Exams: There will be a total of 2 exams. Exam 1 will cover Topic 10-13. Exam 2 will cover Topic 14-18. Use of calculator or similar device and all notes and workbooks are prohibited from use on exams. You will need to show all work for the exam. No make-up will be given for a missed exam. Very special circumstances for being allowed to make up an exam should be handled by immediate consultation with the instructor. Except for true emergencies, these special cases are arranged in advance with the instructor. See course calendar for dates of exams.

NO CALCULATORS OR OTHER ELECTRONIC DEVICES ARE ALLOWED FOR ANY QUIZ/EXAM

Attendance and Time Consideration: Although attendance is not part of your evaluation, attendance and participation is necessary for your success in this course. You are encouraged to share your thought processes, ask questions, and share solutions. You are encouraged to support your classmates by listening and thoughtfully reacting to their ideas. You are asked to come prepared to class so that you can actively participate in class discussions. Students who are absent must reach out to classmates or set an appointment with the instructor to discuss missed work.

COURSE, PROGRAM, AND UNIVERSITY POLICIES AND OTHER INFORMATION

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

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.

Academic Integrity Policy: Academic Integrity is about performing in your role as a 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. In line with the goal of developing ethical professionals, students must adhere to honesty on quizzes, exams, and assignments. Absolutely no credit/points will be granted for work where cheating (quizzes/exams) and plagiarism are observed. 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 (https://www.uog.edu/helpline/policies-procedures).

UOG Disabilities Policy/ADA Accommodation Services: The University is committed to providing an inclusive and welcoming environment for all members of our community. Federal and local laws protect the University community from any act of sex discrimination. Such acts violate the essential dignity of our community members. If you need assistance with EEO (Equal Employment Opportunity) and/or Title IX concerns, please contact the Director of EEO/ADA & TITLE IX Office at 671-735-2244, 671-735-2971, TDD 671-735-2243 or eeo-ada@triton.uog.edu.

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, disabilitysupport@triton.uog.edu or telephone/TDD 671-735-2460.

Statement of Unacceptable Conduct for Students, Staff, Faculty: The following will not be tolerated

- sexual harassment, intimidation, or discrimination,
- physical or verbal abuse,
- disparaging comments related to age, color, disability, gender, gender identity, gender expression, national origin,
- political affiliation, race, religion, sexual orientation, and/or veteran status,
- unwelcome physical contact,
- inappropriate nudity and/or sexual images, and or
- threatening or stalking

Withdrawal from Course: Deadline for voluntary withdrawal for MA085B-30B and Part B classes is November 12, 2024. Deadline to withdraw by petition for MA085B-30B and Part B classes is December 6, 2024.

CollegeNET Course Evaluations: Course evaluations will be available for students to complete from November 18 – December 6, 2024. You can access the course evaluations by going to the University of Guam's website. Completion of course evaluation will be extra credit towards Exam 2 upon proof of completion.

Disclaimer: This syllabus is subject to change. By staying registered in the course, you agree to the terms of this course syllabus.

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COURSE CALENDAR

Week	Day	Date	Topic	HW #	Quiz
1	Monday	October 14	Syllabus and Schedule (No Class)		
	Tuesday	October 15	Topic 10 Polynomials	1	
	Wednesday	October 16	Topic 10 Polynomials	2	
	Thursday	October 17	Topic 10 Polynomials	3	
2	Monday	October 21	Topic 11 Factoring	4	**10**
	Tuesday	October 22	Topic 11 Factoring	5	
	Wednesday	October 23	Topic 11 Factoring	6	
	Thursday	October 24	Topic 12 Rational Expressions	7	**11**
3	Monday	October 28	Topic 12 Rational Expressions	8	
	Tuesday	October 29	Topic 12 Rational Expressions	9	
	Wednesday	October 30	Topic 13 More Equations	10	**12**
	Thursday	October 31	Topic 13 More Equations	11	
4	Monday	November 4	Topic 13 More Equations	12	
	Tuesday	November 5	Exam 1 Review Day		**13**
	Wednesday	**November 6**	**Exam 1 Topic 10-13**		
	Thursday	November 7	Topic 14 Linear Equations in Two Variables	13	
5	Monday	November 11	Holiday: Veterans' Day (No Classes)		
	Tuesday	November 12	Topic 14 Linear Equations in Two Variables	14	
	Wednesday	November 13	Topic 14 Linear Equations in Two Variables	15	
	Thursday	November 14	Topic 15 System of Linear Equations	16	**14**
6	Monday	November 18	Topic 15 System of Linear Equations	17	
	Tuesday	November 19	Topic 15 System of Linear Equations	18	
	Wednesday	November 20	Topic 16 Exponents	19	**15**
	Thursday	November 21	Topic 17 Radical Expressions	20	**16**
7	Monday	November 25	Topic 17 Radical Expressions	21	
	Tuesday	November 26			
	Wednesday	November 27			
	Thursday	November 28	Holiday: Thanksgiving Day (No Classes)		
8	Monday	December 2	Topic 17 Radical Expressions	22	
	Tuesday	December 3	Topic 18 Quadratic Equations	23	**17**
	Wednesday	December 4	Topic 18 Quadratic Equations	24	
	Thursday	December 5	Exam 2 Review Day and Course Evaluation		**18**
9	**Tuesday**	**December 10**	**Exam 2 Topic 14-18**		

Disclaimer: This course calendar may change, but you will be notified if so.