

 FLORIDA ATLANTIC UNIVERSITY	COURSE CHANGE REQUEST Undergraduate Programs	UUPC Approval <u>2/26/24</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	Department Mathematic and Statistics College Science	
Current Course Prefix and Number MAC 1105	Current Course Title College Algebra	
<i>Syllabus must be attached for ANY changes to current course details. See <u>Template</u>. Please consult and list departments that may be affected by the changes; attach documentation.</i>		
Change title to: Change prefix From: _____ To: _____ Change course number From: _____ To: _____ Change credits* From: _____ To: _____ Change grading From: _____ To: _____ Change WAC/Gordon Rule status** Add <input type="checkbox"/> Remove <input type="checkbox"/> Change General Education Requirements*** Add <input type="checkbox"/> Remove <input type="checkbox"/> <small>*See <u>Definition of a Credit Hour</u>. **WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See <u>WAC Guidelines</u>. ***GE criteria must be indicated in syllabus and approval attached to this form. See <u>Intellectual Foundations Guidelines</u>.</small>	Change description to: Through this course, students will develop problem solving skills, critical thinking, computational proficiency, and contextual fluency through the study of equations, functions, and their graphs. Emphasis will be placed on quadratic, exponential, and logarithmic functions. Topics will include solving equations and inequalities, definition and properties of a function, domain and range, transformations of graphs, operations on functions, composite and inverse functions, basic polynomial and rational functions, exponential and logarithmic functions, and applications. Change prerequisites/minimum grades to: MAT 1033, or MGF 1130, or MGF 1131 with C or better or suitable placement score. Change corequisites to: Change registration controls to: Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).	
Effective Term/Year for Changes: Fall 2024	Terminate course? Effective Term/Year for Termination:	
Faculty Contact/Email/Phone Ai Beng Radulovic/aradulov@fau.edu/5612973340		
Approved by Department Chair <u>[Signature]</u> College Curriculum Chair <u>[Signature]</u> College Dean <u>[Signature]</u> UUPC Chair <u>Korey Serge</u> Undergraduate Studies Dean <u>Dan Macroff</u> UFS President _____ Provost _____	Date Jan 26, 2024 02 / 01 / 24 2 / 1 / 24 2 / 26 / 24 2 / 26 / 24	

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.

MAC 1105 College Algebra

3 credits

Fall 2024

Prof. XXXXX YYYYY

Office: xxx

Office hours: TBA

Classroom: TBA

Email: xxxxxxx



Course Description

Through this course, student will develop problem solving skills, critical thinking, computational proficiency, and contextual fluency through the study of equations, functions, and their graphs. Emphasis will be placed on quadratic, exponential, and logarithmic functions. Topics will include solving equations and inequalities, definition and properties of a function, domain and range, transformations of graphs, operations on functions, composite and inverse functions, basic polynomial and rational functions, exponential and logarithmic functions, and applications. This course is part of the Intellectual Foundations Program (IFP)

Instructional Method

This class is designated as in-person, meeting on XXX in XXX for Laboratory Sessions and XXX in XXX for Lecture Sessions. There is no remote option for this course.

- **Laboratory Sessions:** You are scheduled for one weekly 80-minute session in a computer laboratory where “Peer Tutors” (PTs) will be available to provide personalized help both during scheduled sessions and during open lab time when the Lab has open stations.
Some formal lab time will be set aside for homework completion, but most homework should be done outside the Lab. A large part of the scheduled lab time will be devoted to quizzes and exams. You are expected to be in the lab on time and to remain in the lab for the duration of the session.
- **Lecture Sessions:** Each week you will attend two lecture sessions of 50 minutes each. The lecture sessions are the main presentation of the course material and serve to guide the students’ study of this material via the computer-based readings, examples, and homework problems.

Prerequisites

MAT 1033 Intermediate Algebra, or MGF 1130 Mathematical Thinking in Context 1, or MGF 1131 Mathematical Thinking in Context 2 (grade of C or better in any of them), or suitable placement score.

Intellectual Foundation (General Education) Program Outcomes

Mathematics is a peculiarly human endeavor that attempts to organize our experience in a quantitative fashion. It aids and supplements our intuitions about the physical universe and about human behavior. The Mathematics and Quantitative Reasoning requirement is intended to give students an appreciation of mathematics and prepare them to think precisely and critically about quantitative problems.

Student Learning Outcomes

Students who satisfy the Mathematics and Quantitative Reasoning requirement will be able to:

- SLO 1 – solve an equation or an inequality using an appropriate technique.
- SLO 2 – define and describe functions, their properties, and graphs.
- SLO 3 - manipulate functions to simplify expressions and find new functions.
- SLO 4 - use transformations to write an equation for a function and to graph a function.
- SLO 5 - model and solve real world problems using functions.

Course Objectives

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

1. Set up and solve linear equations in one or two unknowns. (SLO 1)
2. Set up and solve simple equations involving absolute values, quadratics, and/or radicals. (SLO 1 & 2)
3. Describe and use the properties of a function (including its graph, domain, and range). (SLO 2 & 4)
4. Evaluate and graph a basic library of functions, including linear, absolute value, polynomial, square and cube root functions, and the reciprocal function; describe asymptotic behavior and identify asymptotes. (SLO 2 & 4)
5. Describe and use the properties of a composition of functions, one-to-one functions, and inverse functions. (SLO 2 & 3)
6. Understand the properties of exponential and logarithmic functions and use these properties to graph these functions; solve simple exponential or logarithmic equations; both model and solve simple exponential growth and decay applications. (SLO 2, 3, 4 & 5)

Course Evaluation Method

Assessment Policies:

Homework	15 %
Quizzes (equal weight)	15 %
Exam Average	50 %
Final Exam (Mandatory)	20 %

This course is accessible only through FAU's learning management system, Canvas. You must log into Canvas with your FAU ID and Password to access the materials and assignments in this course. If you do not know your FAU ID or Password, contact OIT for help.

1. **Homework:** Homework will be assigned in Canvas and graded in MyOpenMath. You will access and complete the homework on Canvas. **Homework is not meant to be memorized** as the problems appearing on the exam may not be directly from the homework. Homework assignments will have a due date, so you should pay close attention to both date and time on Canvas. It is your responsibility to be aware of the schedule changes announced by the instructor. MyOpenMath grades parts of problems as all correct or all wrong. **There is no partial credit on homework;** however, you have multiple chances to solve each problem. **NO make-ups will be allowed for missed homework for any reasons.** The lowest two homework grades will be dropped at the end of the semester.
2. **Quizzes:** You will have a quiz every week based on the assigned homework of the previous week, except the weeks when there is a midterm exam or the final exam. These must be taken at your specific time in the Lab with Lockdown Browser and no aids (i.e. no text, videos, or notes). The lowest two quiz grades will be dropped at the end of the semester. Written work for each quiz will be collected after the quiz. Work should be complete, well organized, and labeled.
3. **Exams and Final Exam:** Exams (1 hour) are like the regular weekly quizzes but longer and based on a larger group of homework problems. Like quizzes, you will be using Lockdown Browser and will submit the written work.. Students will be able to retake/make-up one exam at the end of the semester. The higher of the two grades will be used toward the overall grade. If a student is absent without an excuse the day of a test, one test can be made up during the retake day at the end of the semester. If a student is absent without an excuse on the retake day, then only the first test grade will count. A comprehensive Final Exam (2 hours) will be given at the end of the semester. The Final Exam is mandatory.
4. **Credit Dispute:** If you believe you should receive credit on a quiz or test question, please contact your instructor or TA within a week of receiving the grade. We will then review the written work you submitted. Ensure that your test answers adhere to the correct format specified by the question. You should familiarize yourself with the preferred answer format as indicated in the homework guidelines.
5. It is your responsibility to keep up with due dates and times for the various assignments. The assignment due dates and times are available on Canvas. You are responsible for completing each homework assignment on time, and attending the lab for quizzes, and

exams and Final exam on time and during the time window it is available.

6. You must give yourself ample time to complete assignments well before the posted due date as some assignments may take more time to complete when compared to other assignments.
7. You must check the “Announcements” tab periodically for information regarding the class.
8. All course times are in Eastern Standard Time, that is Boca Raton, FL time zone.

Course Grading Scale

All grades will be posted in the Canvas gradebook.

Percentage Score:	90-100	87-89	84-86	80-83	77-79	73-76	65-72	55-64	0-54
Grade:	A	A-	B+	B	B-	C+	C	D	F

Policy on Makeup Tests, Late Work, and Incompletes:

1. Make-Up Policy:

- There is no make-up policy unless a student has a university-approved excuse.
- Any student missing a quiz or exam without an official excuse will receive a zero grade.
- If a student misses a quiz, it will count as one of the quiz grades dropped at the end of the semester.
- Students are responsible for arranging make-up work for legitimate reasons such as illness, military obligations, court-imposed legal obligations, or participation in university-approved activities (e.g., athletic or scholastic teams, musical and theatrical performances, and debate activities).
- Students must give notice to the instructor prior to any missed work.
- Excusable absences must be documented by a verifiable source, and FAU-approved documents must be provided to the instructor at least three days before the due date.
- Except in extraordinary circumstances, make-up tests must be taken within 48 hours of the due date of the missed work.
- In emergency situations, students must inform the instructor about missed work within 2 days of the due date, along with university-approved documents for approval of make-up work. These documents should be from a third party unrelated to the student.
- There is no make-up for final exams.
- There is no make-up for homework, as all assignments for this course will be open and available to students from the beginning of the semester.
- Family and personal vacation/travel do not constitute a valid reason for an excused absence.

2. Incomplete Grade (I):

- The grade of Incomplete (I) can only be given under the conditions specified in the "Incomplete Grades" section of the FAU Catalog.
- Supporting documentation will be required to grant an Incomplete grade.

Classroom Etiquette Policy

Disruptive behavior is defined in the FAU Student Code of Conduct as "... activities which interfere with the educational mission within classroom. Students who disrupt the educational experiences of other students and/or the instructor's course objectives in a face-to-face or online course are subject to disciplinary action. Such behavior impedes students' ability to learn or an instructor's ability to teach. Disruptive behavior may include but is not limited to non-approved use of electronic devices (including cellular telephones); cursing or shouting at others in such a way as to be disruptive; or, other violations of an instructor's expectations for classroom conduct." **Note: If a student misses a lecture, it is his or her responsibility to get notes from a classmate, not the instructor.**

Special Course Requirements

Scientific calculator.

Policy on the Recording of Lectures

Because of a new Florida Statute in 2021, the following model language is suggested for inclusion in course syllabi, at the discretion of individual faculty:

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

Attendance Policy

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in university-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow

each student who is absent for a university-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students with a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie, and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university's mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Required Texts/Readings

XXXXX. This is an online textbook along with the online homework resource MyOpenMath (MOM).

You will access MyOpenMath through Canvas (<http://canvas.fau.edu>) for homework. You **DO NOT** need a MyOpenMath account and please do not create one. As a student enrolled in this Canvas course a free, no cost account will be made for you. You can review the following information regarding MyOpenMath; you are responsible for reading and reviewing these materials and asking questions prior to the start of the term.

- MyOpenMath Privacy Policy <https://www.myopenmath.com/info/policies/privacy.php>
- MyOpenMath Terms of Service <https://www.myopenmath.com/info/policies/terms.php>
- MyOpenMath Student Data Privacy Statement <https://www.myopenmath.com/info/policies/studentdata.php>

Course Topical Outline

Week 1	<ul style="list-style-type: none"> • Lab: Familiar with MOM, Syllabus, Start Sect xx • Lectures: Sect 1.1, 1.2 • Aug xx: Last day to drop/add
Week 2	<ul style="list-style-type: none"> • Lab: Quiz 1 – Sect xxxx • Lectures: Sect xxxxxx
Week 3	<ul style="list-style-type: none"> • Sept xx: Labor Day holiday, FAU closed • Lab: Quiz 2 – Sect xxxx (if lab missed, move quiz to Week 5) • Lectures: Review Test 1
Week 4	<ul style="list-style-type: none"> • Lab: Test 1 – Sect xxxx • Lectures: Sect xxxx
Week 5	<ul style="list-style-type: none"> • Lab: Quiz 3 – Sect xxxx • Lectures: Sect xxxx
Week 6	<ul style="list-style-type: none"> • Lab: Quiz 4 - Sect xxxx • Lectures: Sect xxxx
Week 7	<ul style="list-style-type: none"> • Lab: Quiz 5 - Sect xxxx • Lectures: Review Test 2
Week 8	<ul style="list-style-type: none"> • Lab: Test 2 – Sect xxxx • Lectures: Sect xxxx
Week 9	<ul style="list-style-type: none"> • Lab: Quiz 6 – Sect xxxx • Lectures: Sect xxxx
Week 10	<ul style="list-style-type: none"> • Lab: Quiz 7 – Sect xxxx • Lectures: Sect xxxx • Oct xx: Last day to drop with a W
Week 11	<ul style="list-style-type: none"> • Lab: Quiz 8 – Sect xxxx • Lectures: Review Test 3
Week 12	<ul style="list-style-type: none"> • Nov xx: Veteran’s Day holiday (observed), FAU closed • Lab: Test 3 – Sect xxxx • Lectures: Sect xxxx
Week 13	<ul style="list-style-type: none"> • Lab: Quiz 9 - Sect xxxx • Lectures: Sect xxxx
Week 14	<ul style="list-style-type: none"> • Nov xx to xx: Thanksgiving Break, no classes on the xx, FAU closed on the xx and xx

	<ul style="list-style-type: none">• Lab: Test 4 – Sect xxxx• Lectures: Review Test 4 and Final Exam
Week 15	<ul style="list-style-type: none">• Lab: Test make-up/retakes• Lectures: Review Final Exam
Week 16	<ul style="list-style-type: none">• Final Exam – check with instructor for date, time, and location

The instructor reserves the right to adjust this syllabus as necessary.