

**Texas A&M University--San Antonio**  
at One University Way, San Antonio, TX 78224  
Department of Computational, Engineering, and  
Mathematical Sciences (CEMS)  
**Spring 2024**



**MATH 1314: COLLEGE ALGEBRA**  
**MATH 1014:** Recitation R 12:30-11:50am  
online with Francesca Keith  
**Section:** 600; TR 11am-12:15pm, online  
**Credit Hours:** 3 credits

**Instructor:** Amy Main  
**Office:** Hall 218      **Phone:** 210-784-2821  
**e-mail:** [amain@tamusa.edu](mailto:amain@tamusa.edu) (Please include your full name, class, & section # in all emails.)

**Office hours:** MWF 11-11:50am, WF 9:30-9:55am; T 10:30-10:55am; T 12:30-1pm online. No appointment necessary. **Do not hesitate to make arrangements to see me outside of office hours.**

**Recitations:** As part of Math1314, students are required to attend a weekly recitation session. In weekly recitation sessions, you will meet with your recitation instructor who will review the material, provide in-class assignments and/or participation exercises, & answer questions on the material covered in class & homework problems.

NOTE: This class meets 3 times a week—2 times with your class instructor & 1 time with your recitation instructor. Aside from the 4 hours that you spend in class each week, you should devote at least another 4 to 6 hours to studying on your own: reading the book & my lecture notes, working out homework assignments & solving extra related problems for practice, etc. You are responsible for any & all materials/topics discussed in this class.

### **COURSE DESCRIPTION & MATERIALS:**

**Course Overview:** In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. This course meets the standards for the Mathematics category of courses under the core curriculum. This course is specifically intended for students that have not yet passed TSIA Math.

**Prerequisite:** Evidence of math equivalent to High School Algebra II (“C” or above) or placement.

**Required Textbook:** Online access code for *College Algebra* by Robert F. Blitzer, 8<sup>th</sup> Ed., with MyMathLab, Pearson Publishing, 2018, ISBN 97801344469164. (E-book included with access code).

\*\*Access codes are available in Blackboard, through the Brytewave link. Optional: Students can purchase a loose-leaf version of text for a low cost if desired (check bookstore).

**Calculator Policy:** A scientific non-graphing, non-programmable calculator is required; TI-30XIIS is recommended. Calculators may not be shared. No cell phone or graphing calculators will be allowed on exams, and online math utilities (e.g., Desmos) are also not allowed. **NOTE:** Laptops, cell phone, & other mobile devices are NOT acceptable calculators.

**Student Learner Objectives:** Upon completion of this course, students will:

1. Demonstrate understanding and knowledge of properties of functions, which includes domain and range, combinations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions, and solve and explain related equations.
3. Interpret and apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve, apply and explain systems of linear equations using matrices.

MATH 1314 helps students develop critical thinking, communication, and empirical and quantitative skills by focusing on student understanding of key algebraic concepts and appropriate applications related to everyday experience.

**List of Topics:** Topics to be covered include but are not limited to the following:

1. Solving linear equations and applying models (Sections 1.2~1.3)
2. Complex numbers (Section 1.4)
3. Solving quadratic, rational, and radical equations (Sections 1.2~ 1.5~1.6)
4. Solving linear and compound inequalities (Section 1.7)
5. Solving absolute value equations and inequalities (Sections 1.6~1.7)
6. Distance formula and circles (Section 2.8)

7. Functions and their graphs (Sections 2-1 ~ 2-2)
8. Linear functions and slope (Sections 2-3 ~ 2-4)
9. Transformations of functions and graphing (Section 2-5)
10. Combinations and compositions of functions (Section 2-6)
11. Inverse functions (Section 2-7)
12. Quadratic functions and graphing (Section 3-1)
13. Polynomial functions and graphing (Section 3-2)
14. Zeros of polynomial functions (Sections 3-3 ~ 3-4)
15. Rational functions and graphing (Section 3-5)
16. Introduction to polynomial and rational inequalities (Section 3-6)
17. Direct, inverse, and combined variation (Section 3.7)
18. Exponential and logarithmic functions (Sections 4-1 ~ 4-2)
19. Properties of logarithms: solving exponential and logarithmic equations (Sections 4-3 ~ 4-4)
20. Applications with log and exponential functions (Sections 4.4~ 4.5)
21. Systems of linear and non-linear equations and matrices (Sections 5.1 ~ 5.2, 5.4 and 6.1)
22. More on solutions of systems of linear equations (Sections 6.2 and 6.5)
23. Properties of matrices (Section 6.3)
24. Introduction to sequences and series (Sections 8.1~8.3)

The instructor reserves the right to modify/update the topics as appropriate.

### **COURSE WORK & GRADE DISTRIBUTION:**

**Class Participation:** Active participation & cooperation in class is essential for your success as an individual student & our success as a class. You will participate in group work & may be asked to present to the class. If you miss class, you are responsible for finding out what you missed on that day. You are welcome to ask questions on the topics that you missed; however, it is your responsibility to learn the material.

**Learning New Content:** In this online class, your instructor will hold 2 lectures each week during our scheduled class time. The lectures will be held in Blackboard in the “BB Collaborate Ultra” tab of the course. If you miss a live lecture, you can watch the recording in Blackboard. You are expected to participate in and/or watch the recordings of all lectures. The lectures take the place of coming to class in a traditional face-to-face course. If you do not have a high-speed Internet connection it may be difficult to log in to the lectures or to view the recordings. If you don’t watch the lectures/recordings, it is equivalent to not coming to class, and will make the homework difficult to complete.

**Homework:** Homework will be in two parts. One part on-line with MyMathLab (MML). All due dates are listed in MML. You can complete the assignments until 11:59pm of the due date listed. The homework may be attempted multiple times in order to increase your homework grade. The other part is to be collected at the beginning of the day of the exams (see daily schedule). It will **not** be graded for correctness but examined for completeness & given a grade based on that. Please do not crowd the problems on the pages, leave plenty of space between problems. Please put the section number to each exercise.

**Quizzes:** The quiz questions will come from topics covered in lecture and assigned homework. For each exam, you will have one on-line quiz that is due the day of the exam. I suggest taking it before the exam as a way to help you study. The quiz grade will be the sum of the best 10 to achieve 100 points. NOTE: I have been known to give a roll-call quiz which **cannot** be made up.

**Worksheets:** Worksheets will be enrichment exercises that are to be done outside of the classroom to help understand the topics covered in class. They will be turned in after recitation and will not be accepted late. The worksheet grade will be the sum of the best 10 to achieve 100 points.

**Exams:** There will be three on-campus in-class exams. All exams are closed books and closed notes to be completed during class time. The format of the exams will be discussed the day before each exam. I am NOT out to trick you! If you come to lecture (and pay attention, of course) and do the assigned homework you should do well on the exams. If you cannot attend during normal class time, you can take the exam anytime between the Tuesday end of class until end of day on Saturday with the testing center. The testing

center hours are M-Th 9am-8pm, F 9am-6pm & Sat 9am-2pm. They are located in CAB suite 209. You must register either in-person or online in advance to take the exam. For the testing center, you must have a photo ID & arrive 15 minutes early to sign in. You will not be able to take any personal items into the testing center. They will provide pencil & calculator along with the exam. The days of the in-class exams are Feb 15, Mar 21 & Apr 11.

**Final Exam:** In order to pass this class, students *must* take a comprehensive final exam scheduled during Finals Week. Finals cannot be rescheduled or missed (for dire & unforeseen medical or family emergencies, students must consult with me). The final exam may be used to replace your lowest regular exam grade. **The final exam must be completed by the announced due date. NO EXCEPTIONS.**

**Course Objectives:** That student should perform at a 70% or better average on exams, homework, class participation, worksheets and quizzes covering the topics listed in the course description and those topics included in the daily schedule.

<b>Grade:</b>		750 - 675 : A (90%)
Exam 1 (Feb 15)	- 100 pts	674 - 600 : B (80%)
Exam 2 (Mar 21)	- 100 pts	599 - 525 : C (70%)
Exam 3 (Apr 11)	- 100 pts	524 - 450 : D (60%)
Final (TBD)	- 150 pts	below 450 : F
Quizzes	- 100 pts	W: Student initiated drop
Worksheets	- 100 pts	I: Passing but for some justified reason you did not complete all required
Homework	- 70 pts	work (a test, final examination, etc.) You must complete the missing
Participation	- 30 pts	work for the course within 120 days, or the grade is automatically
		changed to a F.

### COURSE REQUIREMENTS & EXPECTATIONS

**Class Attendance:** Students are expected to either attend live online lectures or watch the recordings posted on Blackboard. Be aware of what has been covered in every class and any announcements and course policy changes made in class. Announcements and changes will also be communicated through Blackboard. You are welcome to ask questions during my office hours; however, it is your responsibility to learn the material.

**Gradebook:** The gradebook in Blackboard is updated after each exam. In addition to checking the grades in BB, you will receive a progress report after each exam to compare your grades with. Please keep your graded material until the end of the semester and inform your instructor of any discrepancies either in BB or on the progress report in a timely matter.

**Make-up Policy:** There are no make-up for daily quizzes, rather the two lowest of these will be dropped. You are expected to always be present for major exams. Exams must be taken on the date specified. **No make-up exams will be given.** However, the lowest of the three regular exams may be replaced by the final exam score. Extenuating circumstances that may force a student to miss a test should be discussed with the instructor immediately, if possible before the scheduled test date.

**Dropping the Course:** It is the student's responsibility to drop a course. The instructor may not automatically drop you. Please check the academic calendar webpage of TAMU-SA for the last day to drop a course or withdraw from the university. Please contact the Welcome Center at 784-1300 if you desire to drop the course.

**Blackboard:** Students are responsible for checking Blackboard regularly for announcements, assignments, & other support materials posted there. However, students are also responsible for all announcements & assignments which are given in the classroom. Please use my TAMUSA e-mail if you need to communicate with the instructor about the lecture.

**NOTE:** There will NOT be an extra credit assignment, please DO NOT ask for it at the end of the semester. Start studying today! You have enough time to get the perfect grade. To be successful in this course, take responsibility for your learning & plan to study at least 2 hours for each class hour. Do not get behind; do not hesitate to ask for help. Make good use of the resources that are available to you, especially your book & your instructor. Save all your graded assignments, exams & quizzes until you receive your final grade.

**Communication etiquette:** When using Jaguar email, please employ professional writing skills, Correspondence should begin with an appropriate salutation including the professor's academic title with last name and end with an appropriate closing with the student's full name. (Once a thread has been established, it may not be necessary to use a salutation or your full name each time.) The body of the correspondence should always demonstrate good spelling, grammar, punctuation, and general courtesy. Correspondence that does not adhere to these standards will receive an automatic reply of *Please see syllabus information on communication etiquette*. Email is monitored Monday-Friday during standard business hours. Please allow at least two business days for email replies.

### **CLASS RULES:**

1. Regular participation and attendance is VERY IMPORTANT in this class! You are enrolling in a THREE HOUR math course, so expect to work on your Math work very frequently. Waiting to work on one day at the end of the week would be disastrous for this three hour course! Homework from the textbook is never late—it will be accepted until the day of the final; however, you should be doing on-line homework as soon as possible after it's covered during lecture. Failure to complete work will result in lower grades.
2. An absence in this online course is defined as the following: Not attending an online lecture at the scheduled time. You will receive a participation grade based on our online meetings. Every day missed will result in a deduction from your participation points.
3. You should be doing homework, worksheets, and/or quizzes daily. Optional activities such as study plan or videos do not satisfy the participation requirement. To be counted as "participating", you must attend class and be involved by taking notes, asking questions and working on classroom exercises. If needed, seek help so that you can re-try homework in order to get your grades up.
4. Please do not ask me to extend the due dates. If a problem arises, please contact me so I can work with you. Work ahead on the assignments whenever possible (remember... if something can go wrong, it will).
5. If you need additional help, please ask! Your instructor is available to help both in-class & during office hours, and students also have access to free online tutoring through Jaguar Tutoring in the ALC. I will be available online every day, Mon - Fri. either during office hours or through email: [amain@gmail.com](mailto:amain@gmail.com)

### **IMPORTANT UNIVERSITY POLICIES & RESOURCES**

University Email Policy and Course Communications: All correspondence between professors and students must occur via University email accounts. You must have your Jaguar email account ready and working. If it is not working, contact the help desk at [helpdesk@tamusa.edu](mailto:helpdesk@tamusa.edu) or at 210-784-HELP (4357). If you don't hear back within 48 hours, contact them again. They have many requests during the first part of the semester, so you may need to follow up with them.

Academic Accommodations for Persons with Disabilities: Texas A&M University-San Antonio is committed to providing all students with reasonable access to learning opportunities and accommodations in accordance with The Americans with Disabilities Act, as amended, and Section 504 of the Rehabilitation Act. If you experience barriers to your education due to a disability or think you may have a disability, please contact Disability Support Services in the Central Academic Building, Suite 210, or at (210) 784-1335 or visit <https://www.tamusa.edu/index.html> or email us at [dss@tamusa.edu](mailto:dss@tamusa.edu). Disabilities may include, but are not limited to, attentional, learning, mental health, sensory, physical, or chronic health conditions. All students are encouraged to discuss their disability-related needs with Disability Support Services and their instructors as

soon as possible.

Academic Learning Center: The Academic Learning Center provides free course-based tutoring to all currently enrolled students at Texas A&M University-San Antonio. Students wishing to work with a tutor can make appointments through the Brainfuse online tutoring platform. Brainfuse can be accessed in the *Tools* section of Blackboard. You can contact the Academic Learning Center by emailing [tutoring@tamusa.edu](mailto:tutoring@tamusa.edu), calling (210) 784-1307, or visiting the Central Academic Building, room 202.

Counseling/Mental Health Resources: As a college student, there may be times when personal stressors interfere with your academic performance and/or negatively impact your daily functioning. If you are experiencing emotional difficulties or mental health concerns, support is available to you through the Student Counseling Center (SCC). To schedule an appointment call 210-784-1331 or visit Madla 120.

All mental health services provided by the SCC are free and confidential (as the law allows). The Student Counseling Center provides brief individual and group therapy, crisis intervention, consultation, case management, and prevention services.

Crisis support is available 24/7 by calling the SCC at 210-784-1331 (after-hours select option '2'). For more information and self-help resources, please visit [www.tamusa.edu/studentcounseling](http://www.tamusa.edu/studentcounseling)

Emergency Preparedness: JagE Alert is Texas A&M University-San Antonio's mass notification. In the event of an emergency, such as inclement weather, students, staff and faculty, who are registered, will have the option to receive a text message, email with instructions and updates. To register or update your information visit: <https://tamusa.bbcportal.com/>.

More information about Emergency Operations Plan and the Emergency Action Plan can be found here: <https://www.tamusa.edu/about-us/campus-information/safety/university-police-department/documents/emergency-operations-plan.pdf> and <https://www.tamusa.edu/about-us/campus-information/safety/university-police-department/documents/emergency-action-plan.pdf>

Download the SafeZone App for emergencies or call (210) 784-1911. Non-Emergency (210) 784-1900

Financial Aid and Verification of Attendance: According to the following federal regulation, 34 CFR 668.21: U.S. Department of Education (DoE) Title IV regulation, a student can only receive Title IV funds based on Title IV eligibility criteria which include class attendance. If Title IV funds are disbursed to ineligible students (including students who fail to begin attendance), the institution must return these funds to the U.S. DoE within 30 days of becoming aware that the student will not or has not begun attendance. Faculty will provide the Office of Financial Aid with an electronic notification if a student has not attended the first week of class. Any student receiving federal financial aid who does not attend the first week of class will have their aid terminated and returned to the DoE. Please note that any student who stops attending at any time during the semester may also need to return a portion of their federal aid.

Writing, Language, and Digital Composing Center: The Writing, Language, and Digital Composing Center supports graduate and undergraduate students in all three colleges as well as faculty and staff. Tutors work with students to develop reading skills, prepare oral presentations, and plan, draft, and revise their written assignments. Our language tutors support students enrolled in Spanish courses and students composing in Spanish for any assignment. Our digital studio tutors support students working on digital projects such as eportfolios, class presentations, or other digital multimedia projects. Students can schedule appointments through JagWire under the Student Services tab. Click on "Writing, Language, and Digital Composing Center"



to make your appointment. The Center offers face-to-face, synchronous online, and asynchronous digital appointments. More information about what services we offer, how to make an appointment, and how to access your appointment can be found on our website at <https://bit.ly/WLDCCenter>.

**Meeting Basic Needs:** Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the Dean of Students (DOS@tamusa.edu) for support. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to provide any resources they may possess.

**Military Affairs:** Veterans and active-duty military personnel are welcomed and encouraged to communicate, in advance if possible, and special circumstances (e.g., upcoming deployment, drill requirements, disability accommodations). You are also encouraged to visit the Patriots' Casa in-person room 202, or to contact the Office of Military Affairs with any questions at military.va@tamusa.edu or (210)784-1397.

**Religious Observances:** Texas A&M University-San Antonio recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes for regular session classes.

**The Six-Drop Rule:** Students are subject to the requirements of Senate Bill (SB) 1231 passed by the Texas Legislature in 2007. SB 1231 limits students to a maximum of six (6) non-punitive course drops (i.e., courses a student chooses to drop) during their undergraduate careers. A non-punitive drop does not affect the student's GPA. However, course drops that exceed the maximum allowed by SB 1231 will be treated as "F" grades and will impact the student's GPA.

**Statement of Harassment and Discrimination:** Texas A&M University-San Antonio is committed to the fundamental principles of academic freedom, equality of opportunity and human dignity. To fulfill its multiple missions as an institution of higher learning, A&M-San Antonio encourages a climate that values and nurtures collegiality and the uniqueness of the individual within our state, nation, and world. All decisions and actions involving students and employees should be based on applicable law and individual merit. Texas A&M University-San Antonio, in accordance with applicable federal and state law, prohibits discrimination, including harassment, on the basis of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, gender identity, gender expression, or pregnancy/parenting status. Individuals who believe they have experienced harassment or discrimination prohibited by this statement are encouraged to contact the appropriate offices within their respective units.

Texas A&M University-San Antonio faculty are committed to providing a safe learning environment for all students and for the university as a whole. If you have experienced any form of sex- or gender-based discrimination or harassment, including sexual assault, sexual harassment, domestic or dating violence, or stalking, know that help and support are available. A&M-San Antonio's Title IX Coordinator can support those impacted by such conduct in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, and more. The university strongly encourages all students to report any such incidents to the Title IX Coordinator. Please be aware that all A&M-San Antonio employees (other than those designated as confidential resources such as counselors and trained victim advocates) are required to report information about such discrimination and harassment to the university. This means that if you tell a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the university's Title IX Coordinator ([titleix@tamusa.edu](mailto:titleix@tamusa.edu), 210-784-2061, CAB 439K). If you wish to speak to a confidential employee who does not have this reporting requirement, you can contact the Student Counseling Center at (210) 784-1331 or visit them in Madla 120.

Pregnant/Parenting Students: Texas A&M-San Antonio does not require a pregnant or parenting student, solely because of that status or issues related to that status, to (1) take a leave of absence or withdraw from their degree or certificate program; (2) limit the student's studies; (3) participate in an alternative program; (4) change the student's major, degree, or certificate program; or (5) refrain from joining or cease participating in any course, activity, or program at the University. The university will provide reasonable accommodations to pregnant students that would be provided to a student with a temporary medical condition and that are related to the health and safety of the student and the student's unborn child. These could include maintaining a safe distance from substances, areas, and activities known to be hazardous to pregnant individuals and their unborn child; excused absences because of illness or medical appointments; modified due dates for assignments; rescheduled tests/exams; taking a leave of absence; and being provided access to instructional materials and video recordings of lectures for excused absences, if these would be provided to any other student with an excused absence. Pregnant/parenting students are encouraged to contact the Title IX Coordinator with any questions or concerns related to their status ([titleix@tamusa.edu](mailto:titleix@tamusa.edu); 210-784-2061; CAB 439K).

Texas A&M-San Antonio has also designated the Title IX Coordinator as the liaison officer for current or incoming students who are the parent or guardian of a child younger than 18 years of age. The Title IX Coordinator can provide students with information regarding support services and other resources.

Students' Rights and Responsibilities: The following statement of students' rights and responsibilities is intended to reflect the philosophical base upon which University Student Rules are built. This philosophy acknowledges the existence of both rights and responsibilities, which is inherent to an individual not only as a student at Texas A&M University-San Antonio but also as a citizen of this country.

#### *Students' Rights*

1. A student shall have the right to participate in a free exchange of ideas, and there shall be no University rule or administrative rule that in any way abridges the rights of freedom of speech, expression, petition and peaceful assembly as set forth in the U.S. Constitution.
2. Each student shall have the right to participate in all areas and activities of the University, free from any form of discrimination, including harassment, on the basis of race, color, national or ethnic origin, religion, sex, disability, age, sexual orientation, or veteran status in accordance with applicable federal and state laws.
3. A student has the right to personal privacy except as otherwise provided by law, and this will be observed by students and University authorities alike.
4. Each student subject to disciplinary action arising from violations of university student rules shall be assured a fundamentally fair process.

#### *Students' Responsibilities*

1. A student has the responsibility to respect the rights and property of others, including other students, the faculty and administration.
2. A student has the responsibility to be fully acquainted with the published University Student Rules found in the Student Handbook, [Student Code of Conduct](#), on our website, University Catalog and to comply with them, as well as federal, state, and local laws.
3. A student has the responsibility to recognize that student actions reflect upon the individuals involved and upon the entire University community.

4. A student has the responsibility to recognize the University's obligation to provide an environment for learning.
5. A student has the responsibility to check their university email for any updates or official university notification.

We expect that students will behave in a manner that is dignified, respectful, and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

Students are expected to exhibit a high level of honesty and integrity in their pursuit of higher education. Students engaging in an act that violates the standards of academic integrity will find themselves facing academic and/or disciplinary sanctions. Academic misconduct is any act, or attempt, which gives an unfair advantage to the student. Additionally, any behavior specifically prohibited by a faculty member in the course syllabus or class discussion may be considered as academic misconduct. For more information on academic misconduct policies and procedures please review the [Student Code of Conduct](#).

No Use of Generative AI Permitted: Math 1314 assumes that all work submitted by students will be generated by the students themselves, working individually or in groups. Students should not have another person/entity do the writing of any portion of an assignment for them, which includes hiring a person or a company to write assignments and/or using artificial intelligence (AI) tools like ChatGPT. Use of any AI-generated content in this course qualifies as academic dishonesty and violates Texas A&M-San Antonio's standards of academic integrity.

Electronic Devices: The use of phones or other electronic devices for non-class related activities is not allowed. Anyone who is observed text messaging or using an electronic device during class for a non-class related purpose will be given a warning, and as a further action that person will be asked to drop the class. Devices should be turned off and put away during exams and quizzes.

Important Dates:

January 16	First day of class
March 11-17	Spring Break – No classes
March 29	Study Day – No classes
April 13	Last day to drop with an automatic “W”
April 20	Last day to drop a course or withdraw from the University
April 29	Last day of classes
April 30	Study Day – No classes
May 1-7	Final exams

The complete academic calendar is available online: <https://www.tamusa.edu/academics/academic-calendar/index.html>

**Sources of Help:**

- Ask questions in class & in recitation.
  - Work with each other.
  - Make an appointment to see me.
  - Go to Math Free Tutoring
  - Get a private tutor.
- Names & contact for at least 3 members of our class:  
1)  
2)  
3)



**HOMEWORK ASSIGNMENTS:** Math 1314; College Algebra; Blitzer, Robert 8<sup>th</sup> ed.

	<u>Section</u>	<u>Table of Contents</u>	<u>Page</u>	<u>Assignment</u>
<b>HW1</b>	1.1	Graphs & Graphing Utilities	105	61, 63, 64, 83, 86
	1.2	Linear Equations & Rational Equations	122	107-110, 112-114
	1.3	Models & Applications	136	31, 46, 58
	1.4	Complex Numbers	148	58-62
	P.5	Factoring Polynomials	73	123-129 odd
	1.5	Quadratic Equations	169	155-158, 160
	1.6	Other Types of Equations	187	115, 117, 120
	1.7	Linear Inequalities & Absolute Value Inequalities	204	135-140
	2.1	Basics of Functions & Their Graphs	232	109-115 odd, 122-125
	2.2	More on Functions & Their Graphs	251	34, 82, 116, 121, 123, 124
	2.3	Linear Functions & Slope	269	84-86, 93-97 odd
	2.4	More on Slope	280	31-34, 36, 38
	2.5	Transformations of Functions	296	123-126, 129-133 odd, 141-144
	2.8	Distance & Midpoint Formulas	333	76-78, 80, 90-94
<b>HW2</b>	2.6	Combinations of Functions; Composite Functions	312	103-106, 114-117
	2.7	Inverse Function	323	70-74, 91-94, 98
	3.1	Quadratic Function	361	74-79, 91-94, 98
	3.2	Polynomial Functions & Their Graphs	379	15-18, 77-80, 82-87
	3.3	Dividing Polynomials; Remainder & Factor Theorems	394	57-64 odd
	3.4	Zeros of Polynomial Functions	408	65-69 odd, 95
	3.5	Rational Functions & Their Graphs	428	108-114, 122, 123
3.6	Polynomial & Rational Inequalities	442	71, 81-83, 104-107	
<b>HW3</b>	4.1	Exponential Functions	476	19-24, 57, 77-78, 88-92
	4.2	Logarithmic Functions	491	47-52, 105-108, 120-125
	4.3	Properties of Logarithms	503	83-88, 105-109 odd, 125-131
	4.4	Exponential & Logarithmic Equations	516	121-123, 141, 143
	4.5	Exponential Growth & Decay; Modeling Data	531	1-4, 58, 60-62, 64
	5.1	Systems of Linear Equations in Two Variables	557	53, 54, 85-91 odd, 92
	5.2	Systems of Linear Equations in Three Variables	568	42-44
<b>HW4</b>	5.4	Systems of Nonlinear Equations in Two Variables	589	64-66
	6.3	Matrix Operations & Their Applications	657	65-68, 72, 74
	6.1	Matrix Solutions to Linear Systems	632	47, 48, 51-55 odd
	6.2	Inconsistent & Dependent Systems & Their Applications	642	37-39
	6.5	Determinants & Cramer's Rule	686	43, 45, 60, 62, 67
	8.1	Sequences & Summation Notation	756	73, 74, 76-79
	8.2	Arithmetic Sequences	767	72-75
	8.3	Geometric Sequences & Series	781	88-91, 93, 94

**MATH 1314: TR TENTATIVE DAILY SCHEDULE – Spring 2024**

Wk	Sunday	Tuesday Class	Thursday Class+ Recitation
1	Hw due	1/16 Intro., 1.1 Register for MML	1/18 1.2, 1.3, 1.4 Wkst Due: wk1 Intro
2	1/21 1.1-3	1/23 P.5, 1.5	1/25 1.6, 1.7 wk2 1.1-1.4
3	1/28 1.4-6	1/30 2.1 Q1 due	2/1 2.2 wk3 1.5-1.7
4	2/4 1.7,2.1-2	2/6 2.3, 2.4 Q2 due	2/8 2.5, 2.8 wk4 2.1-2.5
5	2/11 2.3-2.5	2/13 Review Q3	2/15 Exam1 over Ch1, 2.1-5,2.8 HW#1 due / Q4 online
6	2/18 2.8	2/20 2.6, 2.7	2/22 2.7, 3.1 wk5 2.6-2.7
7	2/25 2.6-7	2/27 3.2, 3.3 Q5 due	2/29 3.3, 3.4 wk6 3.1-3.2
8	3/3 3.1-3	3/5 3.5 Q6 due	3/7 3.6 wk7 3.3-3.5
<b>March 11-15: Spring Break</b>			
9	3/17 3.4-6	3/19 Review Q7	3/21 Exam2 over 2.6-7, Ch3 HW#2 due / Q8 online
10	3/24	3/26 4.1, 4.2	3/28 4.3, 4.4 wk8 4.1-4.2
11	3/31 4.1-4.3	4/2 4.4, 4.5 Q9 due	4/4 5.1, 5.2 wk9 4.3-4.5
12	4/7 4.4-5	4/9 Review Q10	4/11 Exam3 over Ch4,5 HW#3 due / Q11 online
13	4/14 5.1-2	4/16 5.4, 6.3	4/18 6.1 wk10
14	4/21 5.4, 6.3	4/23 6.2, 6.5	4/25 Review for Final wk11 6.1-3
15	4/28 6.1-2,5	4/30 STUDY DAY	5/2
Finals	5/6 old hw due	5/7 TBD FINAL HW#4 due/Q12 online	5/9

\*NOTE: The instructor reserves the right to make changes to the syllabus as needed. If changes are made, you will be notified of the changes in class or by your university e-mail address and as well as on Blackboard.