

Syllabus for MATH 1050-301 Spring 2021

University of Utah Asia Campus

Class time: TuTh 8:30am-10:20am

MATH 1050-301: College Algebra <ul style="list-style-type: none">• Classroom: UAC 304• Instructor: Santosh Pathak• E-mail: s.pathak@utha.edu• Office: UAC 844• Office hours: TBA	<u>Important Dates:</u> <ul style="list-style-type: none">• Exam 1: April 6 (Tuesday)• Exam 2: May 11 (Tuesday)• Final Exam: TBA• For other dates: https://registrar.utah.edu/academic-calendars/asia20-21.php
--	--

Important to Note:

- **Print and bring the lecture notes posted on Canvas to the classroom.**
- **All the exams will be conducted in-person even if the classes are taught online.**

Syllabus subject to change: This syllabus is meant to serve as an outline and guide for our course. Please note that I may modify it with reasonable notice to you. I may also modify the Course Schedule to accommodate the needs of our class. Any changes will be announced in class and posted on Canvas.

Technical requirements: If the classes are taught online then

- quizzes will be taken in Zoom. For this, you will need in addition to the steady internet connection a connected camera (on a smartphone or laptop).
- quizzes will be submitted digitally on Canvas, so some form of digitizing technology will be needed. This could be a scanner, but there are excellent alternative scanning apps for smartphones. Quizzes must be submitted as single PDF files. There are many scanning apps available for Android and IOS, some examples are:
https://play.google.com/store/apps/details?id=com.adobe.scan.android&hl=en_US
<https://apps.apple.com/us/app/adobe-scan-digital-pdf-scanner/id1199564834>

Textbook: *Precalculus*, 10th Edition by Larson.

Calculator: Calculators will be useful for homework, but **will not** be permitted on exams.

Prerequisites: C or better in (Math 1010 OR MATH 1060 OR MATH 1080 OR MATH 1090) OR Accuplacer CLM score of 60 or better OR ACT Math score of 23 or better OR SAT Math score of 540 or better.

Course: Math 1050 is a course that will improve quantitative reasoning and prepare for future math learning in calculus, linear algebra, and discrete mathematics. The following topics will be covered: Numbers, functions, sequences, series, counting problems, graph of functions, inverse functions, polynomials, rational functions, n-th roots, exponential functions, logarithms, piecewise functions, matrices, and matrix equations. We will cover Chapters 1-3, 7-9. Below are the expected learning outcomes:

- Understand the concept of a function and being able to recognize the type of functions.
- Being able to analyzing graphs and transformations of functions.
- Being able to analyzing various types of functions including polynomials, rational functions, exponential functions, and logarithmic functions.
- Being able to solve systems of equations and system of inequalities.
- Understanding the concept of matrices and knowing to perform operations with matrices.
- Being able to solve systems of equations using matrices.
- Recognizing basic patterns in sequences and series of numbers.

Homework: For each section covered, you will be given online assignments in WebWork. The assignments will be posted on the Canvas webpage every week and each assignment will open on a Tuesday at 10am-and will close on Monday at 11:55pm. You are given an unlimited number of attempts at each assignment until the deadline passes.

- On the “Assignment” page, click on the assignment that you want to complete (The due date for the assignment will be next to it.)

- Click on each problem in the assignment set and enter your answers into the appropriate boxes.
- Then select “Preview Answer” to make sure that WebWork thinks you wrote what you think you wrote.
- If you are happy with what you see, click on “Submit answers”.

WebWork understands the following symbols:

- + Sum, for example you can write $a+b$
- - difference, for example $a-b$
- * product, for example $a*b$
- / division, for example a/b
- ^ exponential, for example 2^3 which equals 8

Exponential comes first, multiplication and division next, and addition and subtraction last. You can overrule this sequence with parentheses.

WebWork Built-in Functions:

- e = Natural exponential (2.71828.....)
- π = Pi, the ratio of the circumference to diameter of a circle (3.14159.....)
- $\text{abs}()$ = Absolute value
- $\text{exp}()$ = Natural exponential, same as $e^()$
- $\ln()$ = Natural logarithm,
- $\text{sqrt}()$ = Square Root Function

Quiz: There will be a weekly quiz based on the material covered before the day of the quiz. I will count 10 best quizzes for your final grade.

Midterm Exams: You will have two midterms (80 minutes each, during class time). Absence from an exam will be excused only if you can provide a verifiable and convincing evidence that you have an illness or a serious problem that will prevent you from attending. You must inform me in advance of the missed test, and I will accommodate you if I consider your justification to be appropriate.

Final Exam: There will be a two-hour cumulative final exam on the Week of June 7-10. The date for the final will be posted later.

Canvas Course Page: The course has a Canvas page where all essential information will be posted on a regular basis. I will also post the lecture notes on Canvas. You need to print the lecture notes and bring them with you during the lectures.

Course Lecture Videos: For additional instruction, the math department provides lecture videos for Math 1050 content. They can be found at <https://www.math.utah.edu/lectures/math1050.php>

Grading Policy: Your grade will be based on

Homework	10%
Quizzes	20%
Midterm Exam I	20%
Midterm Exam II	20%
Final Exam	30%

The grading scale for this course is:

A	93% and above	C	[73-77)
A-	[90-93)	C-	[70-73)
B+	[87-90)	D+	[65-70)
B	[83-87)	D	[60-65)
B-	[80-83)	D-	[55-60)
C+	[77-80)	E	Bellow 55%

COVID Related Absences: If you have COVID-19 symptoms, including fever or respiratory symptoms such as cough, phlegm, sore throat, and nasal congestion, you should notify your instructor immediately, call the KCDC for testing guidance, and stay home based on the KCDC's directive. You can return to class if you are clear from COVID-19 symptoms. In order to be excused from your courses, you will need an official medical certification. If you will be absent from an exam, you must email the Assistant Dean of Students at kevin.darco@utah.edu prior to the exam to get the approval for your absence.

Self-quarantine Statement: The University of Utah Asia Campus expects regular attendance at all class meetings. Given the current situation with COVID-19, we have created the following guidelines.

1. If a student has completed less than 50% of the course and is required to self-quarantine, we suggest that the student withdraw from the course. In this situation, all tuition will be refunded with appropriate medical documentation.
2. If a student has completed 50-75% of the course and is required to self-quarantine, the Assistant Dean of Students Office will work with the faculty and student to determine the best scenario. If the decision is to withdraw from a course, all tuition will be refunded with appropriate medical documentation.
3. If a student has completed over 75% of the course and is required to self-quarantine, the student and faculty will work together to ensure that the student is able to complete the course. If the student is unable to finish all coursework during the course, a student may receive the mark "I" (incomplete) and work to complete all remaining coursework in consultation with the instructor.

Zoom Session Statements: If this course must host Zoom sessions, the University of Utah Asia Campus requires that all students turn on their cameras during the entire course and post their full name in English. We ask that students try to locate a quiet space which will allow for ample social distancing and that students not wear a mask if possible. If a student has financial difficulty obtaining the appropriate equipment for online courses, the UAC can help provide resources.

Student Support: Please speak with the instructor if there is any additional support you would like to discuss for this class. The University offers many support services – some are listed below. Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, etc., can interfere with a student's ability to succeed and thrive at the University of Utah. For helpful resources contact the Center for Student Wellness at www.wellness.utah.edu.

Excused Absence: Absence from an exam/quiz will be excused only if you can provide a verifiable and convincing evidence that you have a significant illness or serious personal or family crisis what will prevent you from attending. Except under extremely unusual circumstances, you must inform me at least few days in advance of the missed test, and you must take the make-up exam

prior to the actual exam date. University excused absences are (band, debate, student government, intercollegiate athletics, etc.), military duty or religious obligations are excused with an official documentation addressing the reason for absence. You are expected to promptly make arrangements with me to make up the test. Vacation or work schedule are not considered to be excused absences.

Plagiarism: Students must adhere to the standards of academic integrity for this course. In particular, assessments that are not specifically labelled as being group work should be completed without outside help. We encourage you to make use of other internet sources in the learning process and for assistance on homework, but online resources are not to be used during quizzes or exams. Incidences of academic dishonesty will result at a minimum of a zero grade for that particular assignment, or possible stricter sanctions in accordance with University policy (see below).

Academic Misconduct:

Academic misconduct includes cheating, plagiarizing, research misconduct, misrepresenting one's work, and inappropriately collaborating. Definitions of these and other terms can be found in the Student Code at <http://www.regulations.utah.edu/academics/6-400.html>. The Student Code (at section 6-400(V)) also specifies the required procedures that must be followed when disciplinary actions are taken in response to instances of academic misconduct. For students enrolled in degree programs in the College of Architecture + Planning, a second occurrence of academic misconduct will result in the student's dismissal from their academic program.

Sexual Misconduct: Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted on the basis of your sex,

including sexual orientation or gender identity/expression, you are encouraged to report it to the University's authority.

The Americans with Disabilities Act: The University of Utah Asia Campus seeks to provide equal access to its programs, services, and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the UAC Office of the Dean of Students, 804 Utah Building, 032-626-6002. The UAC Office of the Dean of Students will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in an alternative format with prior notification to the UAC Office of the Dean of Students.

Wellness Statement: Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, etc., can interfere with a student's ability to succeed and thrive at the University of Utah Asia Campus. For helpful resources, contact the UAC Mental Health Counseling Center; asiacampus.utah.edu/mental-health-counseling-center/; 032-626-6142.

Language Policy: The University of Utah Asia campus is committed to providing and fostering an environment that is safe and free from prohibited discrimination. The following language policy applies to all academic and administrative units of the University and to all members of the University community, including faculty, staff, and students. English is recognized as the official language of instruction, assessment, and curriculum. In addition, English is the official language for all administrative and business related matters of the University