Instructor: Kristen Lee
Email: For best results please use Canvas Mail to send me emails. My math email address is klee@math.utah.edu.
Office Hours: Tuesdays from 2:30-3:30 pm. Fridays from 1:45-2:45 pm. All office hours will be held on Zoom
Zoom: You can access the Zoom conference room for the class by going to the course Canvas page.
Class Type: This class is held live in person.

Required Materials
The textbook for this course is available at no cost over Canvas.

Course Description
This course covers functions, inverses, and graphs; polynomial, rational, radical, exponential, and logarithmic functions; systems of equations and matrices; applications; arithmetic and geometric sequences and series.

Course Outcomes
1. Sketch the graphs of quadratic and cubic polynomials, rational, radical, exponential, logarithmic, and piecewise functions with or without transformations. Be able to identify important points such as x- and y-intercepts, maximum or minimum values; domain and range; and any symmetry.
2. Given the graph of a function, be able to identify the domain, range, any asymptotes and/or symmetry, x- and y-intercepts, as well as find a rule for the function if it is obtained from a standard function through transformations.
3. Perform composition of functions and operations on functions
4. Find the inverse of a function algebraically and graphically.
5. For polynomial, rational exponential and logarithmic functions, identify the x-intercepts, asymptotes, end behavior and domain from algebraic and graphic representations. Convert back and forth between algebraic, graphical and verbal representations.
6. Solve polynomial, rational, exponential, and logarithmic equations and inequalities.
7. Represent and interpret physical world situations using exponential and logarithmic functions.
8. Define i as the square root of -1 and know the complex arithmetic necessary for solving quadratic equations with complex roots.
9. Perform matrix arithmetic computations.
10. Solve systems of linear and non-linear equations in two or three variables, including the use of Gaussian elimination and matrix inverses in the linear case.
11. Understand sequences and be able to differentiate between geometric, arithmetic and others such as Fibonacci-type sequences, giving direct formulas where available or a numeric representation.
12. Understand series notation and know how to compute sums of finite arithmetic and finite and infinite geometric series.

Teaching and Learning Methods

I will give a lecture each day. This lecture will be interactive and students will have time to work on questions with their peers. At the end of each week there will be a quiz that is based on the most recent homework the student has done. No quiz will be given during the weeks when the midterm exams take place.

Course Policies

**Attendance & Punctuality:** Attendance is required to take Exams and Quizzes. Students are not explicitly required to attend the course lectures otherwise. However, I believe that for the most part it is in the best interest of the students to attend the lectures.

**Late Work:** Late homework assignments and quizzes will not be permitted. However, at the end of the semester I will drop 6 homework assignments and 2 quizzes. If you miss a quiz or a homework assignment for any reason you will not be permitted to make it up. If I allowed students to make up these assignments I would choose not to drop any scores.

If you miss a mid-term exam you must contact me immediately. If this happens once I will allow you to make up the mid-term exam the following school day with a 15% penalty. If you are experiencing an extreme circumstance that is outside of your control contact me immediately so I can work with you individually.

If you miss a second mid-term you will not be permitted to make it up.

If you miss the Final Exam contact me immediately. You will be permitted to take it on the next school day with a 20% penalty.

**Extra Credit:** Extra credit opportunities will be given throughout the duration of the course. These will include participating in mathematical discussion on the canvas discussion board and completing exam reflections after each mid-term exam. Extra credit will be added to your final grade at the very end of the semester.

**Canvas:** Canvas will be the primary source of communication we will use outside of the classroom. You will be able to find course materials, homework, and announcements on canvas.
**Grading:** Homework for the course is completed through computer software and will be graded through the software, Quizzes and Exams will be done on paper and graded using the computer software, Gradescope. You will be able to see all feedback for your exams and quizzes on Gradescope. If you see a potential error in how something is graded please use the regrade request on Gradescope. From here I will be able to see if there is an issue and resolve it.

**Electronics and other devices:** If you are using a laptop during class time, please sit towards the back of the classroom so you do not distract other students. Cell phones should be silenced during class time. You are not permitted to use electronic devices or calculators during exams or quizzes.

**Academic Misconduct:** If you are found cheating on an exam or quiz you will receive a zero for the assignment and the misconduct will be reported to the Math Department and the University.

**Communication:**
- All course materials, such as lecture slides, assignments, solutions, grades, etc. will be posted on the Course Canvas site. Class announcements will be done via Canvas. You will be responsible for any information contained in them as well as the information announced in class.
- It is also your responsibility to check your Canvas messages regularly. There will be occasions during the semester that I may need to reach out to you individually (e.g. regarding a grade or assignment) and it is in your best interest to respond promptly.
- My preferred method of communication outside of the classroom is through Canvas Mail. If an email is sent during a week day (Monday-Friday) I will respond to the email within 24 hours. I do not check email on Saturday or Sunday. I would like to encourage you to email me only if it is something personal that requires individual attention, if instead you have questions about logistics of the class, course material and assignments, and anything else your classmates may wonder as well, please post a question on the Discussions Board instead. This way the information is shared quickly to the entire class, and each of you can benefit from seeing other classmates’ questions.
- I will always do my best to ensure the communication relevant to the course is clear and transparent, it is your responsibility as well to keep yourself updated by regularly checking: the announcements on Canvas, your Umail, the posts on the Discussions Board, and pay attention to the announcements given in class.
- Students are expected to log in and check Canvas every day for posted announcements and assignments. Students are also strongly advised to set up notifications for Canvas so they do not miss any important notifications.

**Exam Dates:**

Exam 1: Friday, September 24, in class.
Exam 2: Friday, November 5, in class.

Exam 3: Monday, November 22, in class.

The final exam is December 15, 1:00-3:00 pm. The only possible conflicts with this schedule occur if you are also taking Business Core 3010 or 3020 or French 1010, 1020, 2010, or 2020. If you are in one of these classes, work out final exam arrangements with your two instructors within the first two weeks of the semester.

Official Drop/Withdraw Dates: The last day to drop classes is Friday, September 3; the last day to withdraw from this class is Friday, October 22. Please check the academic calendar for more information pertaining to dropping and withdrawing from a course. Withdrawing from a course and other matters of registration are the student’s responsibility.

Holidays: There will be no class on September 6, October 10-17, and November 25-26.

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**Grading Policy (Evaluation Methods & Criteria)**

Semester letter grades will be converted from numerical semester scores (N) as follows:

- \( 100 \geq N \geq 93: A \)
- \( 93 > N \geq 90: A- \)
- \( 90 > N \geq 87: B+ \)
- \( 87 > N \geq 83: B \)
- \( 83 > N \geq 80: B- \)
- \( 80 > N \geq 77: C+ \)
- \( 77 > N \geq 73: C \)
- \( 73 > N \geq 70: C- \)
- \( 70 > N \geq 67: D+ \)
- \( 67 > N \geq 63: D \)
- \( 63 > N \geq 60: D- \)
- \( 60 > N: E \)

The numerical grade consists of several components:
• 15% of final grade: Homework. Homework is delivered online through the IMathAS system. These homeworks will be linked through Canvas and are fully online (no file uploads needed). If you think you have caught a mistake in the online homeworks, email me with an explanation of what you think is wrong.

• 15% of final grade: Quizzes. There will be weekly quizzes delivered in class. There are 10 quizzes in total. The two lowest quiz scores will be dropped. Quizzes may not be retaken.

• 45% of final grade: Midterms. There will be three midterm exams which are longer than quizzes. These will also be delivered in class. The lowest midterm exam score may be dropped and replaced by a higher final exam grade. Each midterm is worth 15%. If you do not take an exam, that score will not be dropped -- it’s best for you in the course to attempt all the assigned work.

• 25% of final grade: Final Exam. The final exam is a comprehensive exam covering all topics in the course. The final exam grade will replace the lowest midterm score.

It is the student’s responsibility to ensure the accuracy of all recorded homework, quizzes, online assignments, and exam grades. Also you should keep as record all your graded assignments. If you see any error in your grades on Canvas, reach out to the instructor as soon as possible, or at the latest within two weeks from when the assignment was returned.

University Policies

1. **The Americans with Disabilities Act.** The University of Utah 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 Center for Disability Services, 162 Olpin Union Building, (801) 581-5020. CDS 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 Center for Disability Services.

2. **University Safety Statement.** The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit safeu.utah.edu.

3. **Addressing 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, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or the Office of the Dean of Students, 270 Union Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS).

4. COVID-19 Fall 2021 Statement

University leadership has urged all faculty, students, and staff to model the vaccination, testing, and masking behaviors we want to see in our campus community.

These include:

- Vaccination
- Masking indoors
- If unvaccinated, getting weekly asymptomatic coronavirus testing

Vaccination

- **Get a COVID-19 vaccination** if you have not already done so. Vaccination is proving highly effective in preventing severe COVID-19 symptoms, hospitalization and death from coronavirus. Vaccination is the single best way to stop this COVID resurgence in its tracks.
- Many in the campus community already have gotten vaccinated:
  - More than 80% of U. employees
  - Over 70% of U. students

Masking

- While masks are no longer required outside of Health Sciences facilities, UTA buses and campus shuttles, **CDC guidelines now call for everyone to wear face masks indoors**.
  - Treat masks like seasonal clothing (i.e. during community surges in COVID transmission, masks are strongly encouraged indoors and in close groups outside).

Testing
• If you are not yet vaccinated, get weekly asymptomatic coronavirus tests. This is a helpful way to protect yourself and those around you because asymptomatic individuals can unknowingly spread the coronavirus to others.
  o Asymptomatic testing centers are open and convenient:
    • Online scheduling
    • Saliva test (no nasal swabs)
    • Free to all students returning to campus (required for students in University housing)
    • Results often within 24 hours
    • Visit alert.utah.edu/covid/testing

• Remember: Students must self-report if they test positive for COVID-19 via this website: https://coronavirus.utah.edu/

[The following statements are encouraged by the University for every syllabi. It is up to the instructors to determine if it is appropriate for their class.]

5. [optional] Undocumented Student Support Statement. Immigration is a complex phenomenon with broad impact—those who are directly affected by it, as well as those who are indirectly affected by their relationships with family members, friends, and loved ones. If your immigration status presents obstacles to engaging in specific activities or fulfilling specific course criteria, confidential arrangements may be requested from the Dream Center. Arrangements with the Dream Center will not jeopardize your student status, your financial aid, or any other part of your residence. The Dream Center offers a wide range of resources to support undocumented students (with and without DACA) as well as students from mixed-status families. To learn more, please contact the Dream Center at 801.213.3697 or visit dream.utah.edu.

6. Drop/Withdrawal Policies. Students may drop a course within the first two weeks of a given semester without any penalties. Students may officially withdraw (W) from a class or all classes after the drop deadline through the midpoint of a course. A “W” grade is recorded on the transcript and appropriate tuition/fees are assessed. The grade “W” is not used in calculating the student’s GPA. For deadlines to withdraw from full-term, first, and second session classes, see the U’s Academic Calendar.

7. Other important information to consider including:
   a. Student Code: http://regulations.utah.edu/academics/6-400.php
   b. Accommodation Policy (see Section Q): http://regulations.utah.edu/academics/6-100.php

8. Student Mental Health Resources
   • Rates of burnout, anxiety, depression, isolation, and loneliness have noticeably increased during the pandemic. If you need help, reach out for campus mental health resources, including counseling, trainings and other support.
Consider participating in a Mental Health First Aid or other wellness-themed training provided by our Center for Student Wellness and sharing these opportunities with your peers, teaching assistants and department colleagues.

9. **Diverse Student Support.** Your success at the University of Utah is important to all of us here! If you feel like you need extra support in academics, overcoming personal difficulties, or finding community, the U is here for you.

*Student Support Services (TRIO)*
TRIO federal programs are targeted to serve and assist low-income individuals, first-generation college students, and individuals with disabilities.
Student Support Services (SSS) is a TRIO program for current or incoming undergraduate university students who are seeking their first bachelor’s degree and need academic assistance and other services to be successful at the University of Utah.
For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:

*Student Support Services (TRIO)*
801-581-7188
trio.utah.edu
Room 2075
1901 E. S. Campus Dr.
Salt Lake City, UT 84112

*American Indian Students*
The AIRC works to increase American Indian student visibility and success on campus by advocating for and providing student centered programs and tools to enhance academic success, cultural events to promote personal well-being, and a supportive “home-away-from-home” space for students to grow and develop leadership skills.
For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:

*American Indian Resource Center*
801-581-7019
diversity.utah.edu/centers/airc
Fort Douglas Building 622
1925 De Trobriand St.
Salt Lake City, UT 84113

*Black Students*
Using a pan-African lens, the Black Cultural Center seeks to counteract persistent campus-wide and global anti-blackness. The Black Cultural Center works to holistically enrich, educate, and advocate for students, faculty, and staff through Black centered programming, culturally affirming educational initiatives, and retention strategies.
For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:
**Black Cultural Center**  
801-213-1441  
diversity.utah.edu/centers/bcc  
Fort Douglas Building 603  
95 Fort Douglas Blvd.  
Salt Lake City, UT 84113

**Students with Children**  
Our mission is to support and coordinate information, program development and services that enhance family resources as well as the availability, affordability and quality of child care for University students, faculty and staff.  
For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:  
**Center for Childcare & Family Resources**  
801-585-5897  
childcare.utah.edu  
408 Union Building  
200 S. Central Campus Dr.  
Salt Lake City, UT 84112

**Students with Disabilities**  
The Center for Disability Services is dedicated to serving students with disabilities by providing the opportunity for success and equal access at the University of Utah. They also strive to create an inclusive, safe, and respectful environment.  
For more information about what support they provide and links to other resources, view their website or contact:  
**Center for Disability Services**  
801-581-5020  
disability.utah.edu  
162 Union Building  
200 S. Central Campus Dr.  
Salt Lake City, UT 84112

**Students of Ethnic Descent**  
The Center for Ethnic Student Affairs offers several programs dedicated to the success of students with varied cultural and ethnic backgrounds. Their mission is to create an inclusive, safe campus community that values the experiences of all students.  
For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:  
**Center for Ethnic Student Affairs**  
801-581-8151  
diversity.utah.edu/centers/cesa/  
235 Union Building  
200 S. Central Campus Dr.  
Salt Lake City, UT 84112
English as a Second/Additional Language (ESL) Students

If you are an English language learner, there are several resources on campus available to help you develop your English writing and language skills. Feel free to contact:

**Writing Center**
801-587-9122
writingcenter.utah.edu
2701 Marriott Library
295 S 1500 E
Salt Lake City, UT 84112

**English for Academic Success (EAS) Program**
801-581-8047
linguistics.utah.edu/eas-program
2300 LNCO
255 S. Central Campus Dr.
Salt Lake City, UT 84112

**English Language Institute**
801-581-4600
continue.utah.edu/eli
540 Arapeen Dr.
Salt Lake City, UT 84108

**Undocumented Students**

Immigration is a complex phenomenon with broad impact—those who are directly affected by it, as well as those who are indirectly affected by their relationships with family members, friends, and loved ones. If your immigration status presents obstacles that prevent you from engaging in specific activities or fulfilling specific course criteria, confidential arrangements may be requested from the Dream Center.

**Arrangements with the Dream Center will not jeopardize your student status, your financial aid, or any other part of your residence.** The Dream Center offers a wide range of resources to support undocumented students (with and without DACA) as well as students from mixed-status families.

For more information about what support they provide and links to other resources, view their website or contact:

**Dream Center**
801-213-3697
dream.utah.edu
1120 Annex (Wing B)
1901 E. S. Campus Dr.
Salt Lake City, UT 84112

**LGBTQ+ Students**

The LGBTQ+ Resource Center acts in accountability with the campus community by identifying the needs of people with a queer range of [a]gender and [a]sexual experiences and responding with university-wide services.

For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:
LGBTQ+ Resource Center
801-587-7973
lgbt.utah.edu (Links to an external site.)
409 Union Building
200 S. Central Campus Dr.
Salt Lake City, UT 84112

Veterans & Military Students
The mission of the Veterans Support Center is to improve and enhance the individual and academic success of veterans, service members, and their family members who attend the university; to help them receive the benefits they earned; and to serve as a liaison between the student veteran community and the university. For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:
Veterans Support Center
801-587-7722
veteranscenter.utah.edu (Links to an external site.)
418 Union Building
200 S. Central Campus Dr.
Salt Lake City, UT 84112

Women
The Women's Resource Center (WRC) at the University of Utah serves as the central resource for educational and support services for women. Honoring the complexities of women's identities, the WRC facilitates choices and changes through programs, counseling, and training grounded in a commitment to advance social justice and equality. For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:
Women's Resource Center
801-581-8030
womenscenter.utah.edu
411 Union Building
200 S. Central Campus Dr.
Salt Lake City, UT 84112

Inclusivity at the U
The Office for Inclusive Excellence is here to engage, support, and advance an environment fostering the values of respect, diversity, equity, inclusivity, and academic excellence for students in our increasingly global campus community. They also handle reports of bias in the classroom as outlined below:
Bias or hate incidents consist of speech, conduct, or some other form of expression or action that is motivated wholly or in part by prejudice or bias whose impact discriminates, demeans, embarrasses, assigns stereotypes, harasses, or excludes individuals because of their race, color, ethnicity, national origin, language, sex, size, gender identity or expression, sexual orientation, disability, age, or religion. For more information about what support they provide and links to other resources, or to report a bias incident, view their website or contact:
Office for Inclusive Excellence
801-581-4600
inclusive-excellence.utah.edu (Links to an external site.)
   170 Annex (Wing D)
   1901 E. S. Campus Dr.
   Salt Lake City, UT 84112

Other Student Groups at the U
To learn more about some of the other resource groups available at the U, check out:
getinvolved.utah.edu/
studentsuccess.utah.edu/resources/student-support