Math 1050-071: College Algebra  
Spring Semester 2022  
Monday and Wednesday, 6:00 – 8:00 pm  
IVC (Internet Video Conference) on Zoom  

**Instructor:** ‘Sarah Jean’ Hoggan, MEd (Phi Kappa Phi)  
**Email:** hoggan@math.utah.edu  
**Office Hours:** Tuesday and Thursday from 9:30 am – 10:30 am via Zoom  
[https://utah.zoom.us/j/94941131708](https://utah.zoom.us/j/94941131708), or by appointment.  
**Accessibility & Support:** Contact me via email, hoggan@math.utah.edu. I will respond within a day unless it is the weekend. I can be available by appointment either before or after class or by a Zoom appointment.  

**Exams:** February 9, March, April 13  

**Final Exam:** Thursday, April 28, 1:00-3:00 pm.  

**COVID-19 considerations:** Students must self-report if they test positive for COVID-19 via coronavirus.utah.edu.  

**REQUIRED COURSE MATERIALS**  
The textbook for this course is available at no cost over Canvas.  

For both quality learning and proctored testing, you are required to have access to the following equipment:  

- **High speed internet** (in order to attend class, access course materials and take exams);  
- a **webcam on your computer or camera on your phone/tablet** (this is necessary for taking exams via Zoom and class meetings);  
- a **microphone** (used for online classes);  
- a **scanning device** (smartphones can be used as scanning devices) which is different than the device you are using for your camera (here are two links to mobile scanners);  
  

- The following is recommended, but not required: a **printer** (if you don’t have one, you will need to make hand-written templates for quizzes and exams);  

*Electronic or equipment failure:* It is your responsibility to maintain your computer and related equipment in order to participate in the online portion of the course. Equipment
failures will not be an acceptable excuse for late or absent assignments. Do plan your time accordingly in the event of equipment or Internet failure to complete your assignments so that you are not up against a time deadline.

**Online Submissions:** You are responsible for submitting the assignment with the required naming convention, correct file extension, formatting and using the software type and version required for the assignment/quiz/exam.

**Calculators:** Calculators may NOT be used on Quizzes or Exams. They may be used during class instruction and with homework.

**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
This course will use instructor driven online lectures that will be delivered using PowerPoint and video conferencing via Zoom during class days and times. One participation point will be awarded for each class that a student attends and verbally responds to questions. All PowerPoint slides are available in Canvas. Homework is delivered online through the IMathAS software. Homework problems may be attempted as many times as necessary before the due date. The software immediately grades each problem. Homework from the lectures will be due the next class day by 11:59 pm, allowing students to get help with their homework the following class period. I encourage students to ask questions from the homework at the beginning of each class. Quiz #1 and Exams (see schedule below) will be taken during class time and uploaded by the student into Gradescope. I try to have exams and quizzes graded by the next class period. Recorded class videos can be accessed by clicking on ‘Media Gallery’. Departmental videos covering all the course material broken down into sections can be viewed at http://www.math.utah.edu/lectures/math1050New.html.

Course Policies

Attendance, Punctuality & Participation: There will be 24 possible participation points. One participation point will be awarded for each online class a student attends and verbally responds to questions. Arriving 15 minutes late or leaving 15 early will result in being marked absent. If you miss a class then you will miss the participation point for that class. If you have a serious illness which prevents you from being online, a doctor’s note will be required. Concepts will be thoroughly explained and reviewed in class. Students who regularly attend score on average 30% higher on exams than those who do not.

Communication:

- All course materials, such as PowerPoint slides, recorded class instruction videos, 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 daily! 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.
- Feel free to contact me by email or Canvas message. I will do my best to answer emails promptly. 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: Wednesday, February 9 at 6 pm; Wednesday, March 23 at 6 pm; Wednesday, April 13 at 6 pm. The Final Exam is Thursday, April 28, 1:00-3:00 pm. The only possible conflicts with this schedule occur if you are also taking Finance 3040 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. Students are not allowed to take an early/late departmental final exam. Please do not schedule your trip before this date, or do not ask me to give you extra time to study.

Official Drop/Withdraw Dates: The last day to drop classes is Friday, January 21; the last day to withdraw from this class is Friday, March 4. 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 January 17, February 21, and March 7-11.

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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-
- $90 > N \geq 88$: B+
- $88 > N \geq 83$: B
- $83 > N \geq 80$: B-
- $80 > N \geq 78$: C+
- $78 > N \geq 73$: C
- $73 > N \geq 70$: C-
- $70 > N \geq 68$: D+
- $68 > N \geq 63$: D
- $63 > N \geq 60$: D-
- $60 > N$: E

The numerical grade consists of several components:

- **15% 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% Quizzes**: There will be weekly quizzes delivered through Canvas and submitted via file upload. There are 10 quizzes in total, which must be submitted within a given time window. The two lowest quiz scores will be dropped. Quizzes may not be retaken. **Three percent** of this grade is the Course Essentials Module consisting of 1) a mandatory Syllabus Quiz, 2) a mandatory Code of Conduct Quiz, and 3) Daily Attendance and Participation.

- **45% Midterms**: There will be three midterm exams which are longer than quizzes. These will also be delivered via Canvas and submitted via file upload. 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% 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.

**DISCLAIMER:**

*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.

**TUTORING HELP:**

ASUU Tutuoring Center

- **U of U Learning Center (fomerly ASUU Tutoring; offers subsidized one-on-one tutoring)** The Learning Center offers three free tutoring sessions per student per semester. Additional hours can be purchased after that. Scholarship assistance also available. Here is a link to more information: [https://learningcenter.utah.edu/](https://learningcenter.utah.edu/)

**Incompletes**: According to university policy, to be considered for an incomplete, a student must have 20% or less of the course work remaining and be passing the course with a C or better. You must request an incomplete grade and I will consider giving that grade only under exceptional circumstances.

**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 Code of Conduct:

Students are encouraged to review the Student Code for the University of Utah: https://regulations.utah.edu/academics/6-400.php. In order to ensure that the highest standards of academic conduct are promoted and supported at the University, students must adhere to generally accepted standards of academic honesty, including but not limited to refraining from cheating, plagiarizing, research misconduct, misrepresenting one’s work, and/or inappropriately collaborating. A student who engages in academic misconduct as defined in Part I.B. may be subject to academic sanctions including but not limited to a grade reduction, failing grade, probation, suspension or dismissal from the program or the University, or revocation of the student’s degree or certificate. Sanctions may also include community service, a written reprimand, and/or a written statement of misconduct that can be put into an appropriate record maintained for purposes of the profession or discipline for which the student is preparing.

Additional University Policies and Resources

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.

   o If in-class attendance is a necessary component of the course for pedagogical reasons (e.g., laboratories, studios, or artistic training), state it explicitly.

   Use this standard language: “Given the nature of this course, attendance is required and adjustments cannot be granted to allow non-attendance. However, if you need to seek an ADA accommodation to request an exception to this attendance policy due to a disability, please contact the Center for Disability and Access (CDA). CDA will work with us to determine what, if any, ADA accommodations are reasonable and appropriate

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 Spring 2022 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.**
o 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/.

5. 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:
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](http://diversity.utah.edu/centers/bcc)
Fort Douglas Building 603
95 Fort Douglas Blvd.
Salt Lake City, UT 84113

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](http://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 Arapaeen 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
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