Class Meetings: TuTh / 12:25PM-01:45PM

Instructor: Eamon Quinlan-Gallego. Feel free call me Eamon, pronounced “eymon”. You can also call me Dr. Quinlan.

Email: quinlan@math.utah.edu. Please allow one business day for a reply.

Office Hours: Mondays 3-4pm, and by appointment. You can join in person in LCB 218 or by Zoom through Canvas.

Text: Complex Variables and Applications, by Brown and Churchill. Either the 8th or 9th edition work. I recommend having the Student’s Solution Manual to check your solutions to exercises (make sure it agrees with your edition of the book!). If you would rather do without the Solution Manual, you can also check your solutions with me during office hours.

Course Information: Math 3160 is a 2 credit course.

Prerequisite Information: A grade of “C” or better in Math 2250 or (Math 2270 and Math 2280).

Course Description: Analytic functions, complex integration, Cauchy integral theorem, Taylor and Laurent series, residues and contour integrals, conformal mappings with applications to electrostatics, heat, and fluid flow.

Canvas: Canvas will be used for posting course announcements, homework assignments, grades, files and any relevant supplementary material. You are also welcome to make use of the Canvas discussion board to discuss course problems or topics. You can access the Canvas page through CIS or by logging in at utah.instructure.com. You should check the Canvas page regularly for course information and resources. Email notifications and correspondence will be sent to the student’s UMail address ([u-number]@utah.edu); this email account must be checked regularly.

In-class worksheets: I will try to always save some time at the end of class for you to work on problems. These problems will be given in an in-class worksheet, which will be available on Canvas. It will typically consist of problems from the book, and solutions can be checked with the Student’s Solutions Manual. Please make sure you always complete these problems, and that you check and understand the solutions. All material given through in-class worksheets may appear in quizzes or exams.

Grading: The following are the grade components and the percentage each contributes to a student’s final grade:

- **Quizzes (25%)** - In the last 15 minutes of most Thursday classes, a short 1-2 problem quiz testing fundamentals will be given. The quiz will cover relevant topics covered in the previous week’s lectures. The two lowest quiz scores will be dropped.

- **Midterm Exams (50%, 25% each)** - We will have two midterm exams during regular class time; they will be 70 minutes long. Dates of the midterm exams will be Thursday, February 10th and Thursday, March 24th.

- **Final Exam (25%)** - A two-hour cumulative exam will be given. Our final exam is scheduled for Tuesday, May 3rd from 10:30am to 12:30pm. If it works to your advantage, I will replace the grade of one (and at most one!) midterm with the grade of the corresponding section of the final.

Note!: Attendance is not taken into account when computing your grade. If you have symptoms of COVID or other infectious disease you are encouraged to refrain from attending class.

Note!: Please put the midterms and the final exam on your calendar as soon as possible. If you have a conflict, please let me know immediately.
Students with university excused absences (band, debate, student government, intercollegiate athletics) should make alternate arrangements with me as soon as possible if the absence interferes with any course components.

- **Grade scale:** A numerical grade of $X\%$ corresponds to a letter grade according to the following table.

| $X \geq 88$ | A       |
| 85 $\leq X < 88$ | A-      |
| 82 $\leq X < 85$ | B+      |
| 73 $\leq X < 82$ | B       |
| 70 $\leq X < 73$ | B-      |
| 67 $\leq X < 70$ | C+      |
| 58 $\leq X < 67$ | C       |
| 55 $\leq X < 58$ | C-      |
| 52 $\leq X < 55$ | D+      |
| 43 $\leq X < 52$ | D       |
| 40 $\leq X < 43$ | D-      |
| $X < 40$       | E       |

**Additional Resources**

- **Tutoring Center & Computer Lab** - There is free tutoring in the T. Benny Rushing Mathematics Student Center (room 155, the lower level between JWB and LCB), as well as a computer lab. For more information see [http://www.math.utah.edu/undergrad/mathcenter.php](http://www.math.utah.edu/undergrad/mathcenter.php)

- **Private Tutoring** - ASUU Tutoring Center, 330 SSB. There is also a list of tutors at the math department office JWB 233.

- **Departmental Videos** - The math department has a full set of lecture videos which you are welcome to use to supplement our course material. These can be found at [http://www.math.utah.edu/lectures/](http://www.math.utah.edu/lectures/)

**Calculators:** Calculators will not be allowed on exams, but they may be necessary to solve certain homework problems. It is in your best interest not to become too dependent on your calculator since they will not be allowed on exams.

**Electronics:** In order to create a good learning environment, please refrain from using any electronics (phone, laptop, etc...) while I am lecturing. I understand that you may have a good reason to be checking your phone during class; if that is the case, please let me know before class begins. While we are working on problems, you are welcome to use your devices but only for the purpose of accessing the book and other mathematical resources.

**COVID:**

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 and, 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 and over 70% of U. students. Visit [http://mychart.med.utah.edu/](http://mychart.med.utah.edu/) or [http://alert.utah.edu/covid/vaccine](http://alert.utah.edu/covid/vaccine) or [http://vaccines.gov/](http://vaccines.gov/) to schedule your vaccination.
• **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. Check the CDC website periodically for masking updates ([https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated-guidance.html](https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated-guidance.html)).

• **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. Asymptomatic testing centers are open and convenient: visit [alert.utah.edu/covid/testing](alert.utah.edu/covid/testing). Remember: Students must self-report if they test positive for COVID-19 via this website: [https://coronavirus.utah.edu/](https://coronavirus.utah.edu/)

**Student Responsibilities:** All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. Students have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, plagiarism, and/or collusion, as well as fraud, theft, etc. Students should read the Code carefully and know they are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, and I will do so, beginning with verbal warnings and progressing to dismissal from and class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee. [http://regulations.utah.edu/academics/6-400.php](http://regulations.utah.edu/academics/6-400.php)

**ADA Statement:** 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 the class, reasonable prior notice needs to be given to the Center for Disability & Access, 162 Olpin Union Building, 801-581-5020. CDA will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in alternative format with prior notification to the Center for Disability & Access.

**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).

**Student Names and Personal Pronouns:** Class rosters are provided to the instructor with the student’s legal name as well as Preferred first name (if previously entered by you in the Student Profile section of your CIS account). While CIS refers to this as merely a preference, I will honor you by referring to you with the name and pronoun that feels best for you in class, on papers, exams, group projects, etc. Please email me what your personal pronouns are. Please advise me of any name or pronoun changes (and update CIS) so I can help create a learning environment in which you, your name, and your pronoun will be respected. If you need assistance getting your preferred name on your UIDcard, please visit the LGBT Resource Center Room 409 in the Olpin Union Building, or email bpeacock@sa.utah.edu to schedule a time to drop by. The LGBT Resource Center hours are M-F 8am-5pm, and 8am-6pm on Tuesdays.

**Wellness:** 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. 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 at [https://studentaffairs.utah.edu/mental-health-resources/](https://studentaffairs.utah.edu/mental-health-resources/)
Safety: 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.

University Counseling Center: The University Counseling Center (UCC) provides developmental, preventive, and therapeutic services and programs that promote the intellectual, emotional, cultural, and social development of University of Utah students. They advocate a philosophy of acceptance, compassion, and support for those they serve, as well as for each other. They aspire to respect cultural, individual and role differences as they continually work toward creating a safe and affirming climate for individuals of all ages, cultures, ethnicities, genders, gender identities, languages, mental and physical abilities, national origins, races, religions, sexual orientations, sizes and socioeconomic statuses.

Office of the Dean of Students: The Office of the Dean of Students is dedicated to being a resource to students through support, advocacy, involvement, and accountability. It serves as a support for students facing challenges to their success as students, and assists with the interpretation of University policy and regulations. Please consider reaching out to the Office of Dean of Students for any questions, issues and concerns. 200 South Central Campus Dr., Suite 270. Monday-Friday 8 am-5 pm.

Student Success Advocates: The mission of Student Success Advocates is to support students in making the most of their University of Utah experience (ssa.utah.edu). They can assist with mentoring, resources, etc. Any student who faces challenges securing their food or housing is urged to contact a Student Success Advocate for support (https://ssa.utah.edu/).