Modern Algebra II, Math 6320  
University of Utah, Spring 2022  
Anurag K. Singh

Class  Tuesday and Thursday, 2:00 – 3:20 pm, LCB 222

Office hours  LCB 124, Wednesday 10:30 – 11:30 am, and by appointment.

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Goals  This is the second course in the graduate algebra sequence; the main topics are Group Theory, Fields and Galois theory, and Representations of Finite Groups.

Texts  Some possible sources are Basic Algebra I, II by Jacobson, Algebra by Lang, Abstract Algebra by Dummit and Foote, and Linear Representations of Finite Groups by Serre.

Prerequisites  Math 6310

Homework  Problem sets will be assigned every two weeks, with TeX and pdf files made available on Canvas. I strongly prefer to have the solutions typeset using TeX. You can discuss the problems with others, but please write solutions by yourself, and submit your homework as a pdf online, via Canvas/Gradescope.

Exams  There will be a mid-term on Tuesday, March 1, and a final exam on Tuesday, May 3, 1:00 – 3:00 pm, each counting for 30% of the grade.

Other dates  Last day to add, drop, audit, or elect CR/NC: Friday, January 21.
              Last day to withdraw from classes: Friday, March 4.
Information, policies, and resources

Covid-19: University leadership urges all faculty, students, and staff to model the vaccination, testing, and masking behaviors that we want to see in our campus community. These include:

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 the coronavirus. Vaccination is the single best way to stop this Covid resurgence in its tracks. Visit http://mychart.med.utah.edu/, or https://alert.utah.edu/covid/vaccine/, or 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.

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. Saliva based testing is available: https://alert.utah.edu/covid/testing/.

Self-Reporting: All of us, including faculty, students, and staff, must self-report if we test positive for Covid-19 at https://coronavirus.utah.edu/.

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 the class, reasonable prior notice needs to be given to the Center for Disability & Access, 162 Olpin Union Building, (801) 581-5020, https://disability.utah.edu/. 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 on the basis of your sex, including sexual orientation or gender identity/expression, you are encouraged to report it to the University’s Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, (801) 581-8365, https://oeo.utah.edu/contact-us/index.php, or to the Office of the Dean of Students, 270 Union Building, (801) 581-7066. https://deanofstudents.utah.edu/. For support and confidential consultation, contact the Center for Student Wellness, 426 Student Services Building, (801) 581-7776. To report to police, contact the Department of Public Safety, (801) 585-2677 (COPS), https://police.utah.edu/.

Campus 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) 585-2677 (COPS). 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 https://safeu.utah.edu.

University Counseling Center: The UCC staff is committed to supporting the mental health needs of our campus community: (801) 581-6826, Monday – Friday, 8:00 am – 5:00 pm. For after-hours emergencies, contact the 24/7 Crisis Line: (801) 587-3000. More information is at https://counselingcenter.utah.edu/.

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. Contact: (801) 581-7066, deanofstudents@utah.edu, https://deanofstudents.utah.edu/

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; this can be managed online by you at any time. I will refer to you with the name and the pronoun that you prefer, in class or on assignments: please advise me of any changes or preferences. For assistance or support, please reach out to the LGBT Resource Center, https://lgbt.utah.edu.

Diversity and Inclusivity: It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students’ learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally, or for others. In addition, if any of our class meetings conflict with your religious events, please let me know so that I can make alternative arrangements for you.