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# Introduction to Probability

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1. **Course Description:** Combinatorial problems, random variables, distributions, independence and dependence, conditional probability, expected value and moments, law of large numbers, and central limit theorems.
2. **Prerequisites:** “C” or better in Math 2210 or Math 1260 or Math 1280 or Math 1321 or Math 3140.
3. **Lectures:** Mondays, Wednesdays, and Fridays: 9:40-10:30am in ST 205
4. **Instructor:** Sean Lawley  
-Email: [lawley@math.utah.edu](mailto:lawley@math.utah.edu)  
-Office: LCB 306  
-Office Hours: To be determined
5. **Website:** <https://utah.instructure.com> (Canvas)
6. **Email:** You are expected to check your official university email address daily. I frequently email important information. If you prefer a different email account, you can have your email forwarded. To do this, contact the campus help desk at 581-4000.
7. **Textbooks:** We will use course notes and the following textbook: Introduction to Probability, 1st edition, by Anderson, Seppäläinen, Valkó (ISBN-13: 978-1108415859).
8. **Grading policy:**

Midterm 1	25%
Midterm 2	25%
Homework quizzes	25%
Final Exam	25%

9. **Homework and homework quizzes:** Homework will be assigned regularly but will not be collected. In lieu of collecting homework, short homework quizzes will be given. The dates for the quizzes are given on the schedule below. These homework quizzes will contain a sampling of problems directly from or very similar to the homework. When calculating final grades, I will drop each student’s lowest homework quiz score(s). Because of this, no makeup quizzes can be done, except in extenuating circumstances such as illness. In this case you should let me know as soon as possible that you will not be able to take the quiz at the scheduled time.
10. **Final Exam:** The cumulative final exam will be on Monday, December 13, from 8-10am in the regularly scheduled classroom (i.e. ST 205).
11. **Tentative schedule:** Please see the *tentative* schedule on the next page.

<b>Tentative</b>		
Aug 23		
Aug 25		
Aug 27		
Aug 30		
Sept 1		
Sept 3	Quiz 1	
Sept 6	No class	
Sept 8		
Sept 10		
Sept 13		
Sept 15		
Sept 17	Quiz 2	
Sept 20		
Sept 22		
Sept 24	Quiz 3	
Sept 27		
Sept 29		
Oct 1	Midterm 1	
Oct 4		
Oct 6		
Oct 8		
Oct 11	No class	
Oct 13	No class	
Oct 15	No class	
Oct 18		
Oct 20		
Oct 22	Quiz 4	
Oct 25		
Oct 27		
Oct 29	Quiz 5	
Nov 1		
Nov 3		
Nov 5	Quiz 6	
Nov 8		
Nov 10		
Nov 12	Quiz 7	
Nov 15		
Nov 17		
Nov 19	Midterm 2	
Nov 22		
Nov 24		
Nov 26	No class	
Nov 29		
Dec 1		
Dec 3	Quiz 8	
Dec 6		
Dec 8		
Dec 10	No class	
Dec 13	Final Exam	8am-10pm

# COVID information

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

1. **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. Visit <http://mychart.med.utah.edu/>, <http://alert.utah.edu/covid/vaccine>, or <http://vaccines.gov/> to schedule your vaccination.
2. **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.
3. **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 at [alert.utah.edu/covid/testing](http://alert.utah.edu/covid/testing).
4. **Self-Reporting:** All of us, including faculty, students, and staff, must self-report if we test positive for COVID-19 via this website: <https://coronavirus.utah.edu/>.

## University of Utah Resources and 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 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.
2. **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, office for equal opportunity and affirmative action including sexual orientation or gender identity/expression, you are encouraged to report it to the University's Title IX Coordinator; Director, 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 SSB, 801-581-7776. To report to police, contact the Department of Public Safety, 801-585-2677(COPS), <https://police.utah.edu/>.
3. **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-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](https://safeu.utah.edu).

4. **University Counseling Center:** The UCC staff is committed to supporting the mental health needs of our campus community. Their phone number is 801-581-6826. Their hours are Monday-Friday, 8:00am-5:00pm. For after-hours emergencies, contact the 24/7 Crisis Line: 801-587-3000. More information is at <https://counselingcenter.utah.edu/>.
5. **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. To contact the Office of the Dean of Students, please email [deanofstudents@utah.edu](mailto:deanofstudents@utah.edu) or call 801-581-7066. There is more information at <https://deanofstudents.utah.edu/>.