



**Email Correspondence:** In order to protect your privacy all email correspondence must be done through a valid OSU name.# account; any email from a non-osu.edu account will be ignored. Please make sure to include "STAT 4201" in the subject line. Note that the faculty and student (buckeyemail) email systems are completely separate. As an alum, I am in both and the latter will autocomplete my buckeyemail address; if you send an email to this address I will not receive it. Your best bet is to contact me through Carmen. In addition, please do not ask for information which is in the syllabus or on Carmen, can be found by a quick search on osu.edu or Google, and/or was announced in class. Please allow up to 48 hours for responses to other inquiries made via email.

**Evaluation:**

Homework (5; equally weighted)	20%
Quizzes (5; equally weighted)	20%
Exam 1 (Wednesday, February 20 <sup>th</sup> )	20%
Exam 2 (Wednesday, March 27 <sup>th</sup> )	20%
Final Exam (Friday, April 26 <sup>th</sup> 4:00 – 5:45)	20%

Homework due dates will be announced in class and on Carmen. There will be approximately 5 homework assignments; each will have some problems graded for accuracy and some graded for completion. Homework is due at the beginning of recitation; late homework will not be accepted. Homework must be turned in during your recitation time and you must take quizzes with your recitation section. No makeup quizzes will be given.

The dates for the exams are tentative and I reserve the right to change the dates of any and all assessments; at least one week of notice will be provided in case of a change. All homework assignments and in-class assessments must be completed in pencil. No makeup quizzes or exams will be given. Please note that solutions, not answers, will be graded; a correct answer alone will not get full credit if the steps leading to it are not clear and/or correct. In addition, presentation/organization and correct use of terminology/notation will be assessed.

If you find a discrepancy in the grading of an assessment (e.g., incorrect addition/subtraction, correct answer marked incorrect, etc.) then you must bring it to my attention no later than one week from the day it is returned. After that no grade will be changed for any reason whatsoever.

The grading scale will be no harsher than the following scale:

A	A-	B+	B	B-	C+
[93,100]	[90,93]	[87,90]	[83,87]	[80,83]	[77,80]
C	C-	D+	D	E	
[73,77]	[70,73]	[67,70]	[60,67]	[0,60]	

**Calculators:** Please note that at no time will you be permitted to share a calculator with another student, use a calculator with a CAS, or use any internet enabled device (e.g., a cell phone) as a calculator.

**Attendance:** While I will not be taking attendance, you are expected to attend every class session. If you miss class then it is your responsibility to get any and all material covered from a classmate. Arriving late or leaving early is distracting to your classmates and me and will not be tolerated.

**Electronic devices:** Use of communication devices and technology for activities other than class work disrupt the learning process for you and others in the class and will not be tolerated. Cell phones and other electronic devices should be turned off or silenced during class.

**Recording of Class:** Audio, video, and photographic recording of class content (e.g., lectures) is strictly prohibited without written authorization from the instructor. The transmission or dissemination of all course content onto public, commercial, or social media sites is strictly prohibited.

**Academic Misconduct:** Please help us to maintain an academic environment of mutual respect, fair treatment, and personal growth. You are expected to produce original and independent work for exams and homework. Although students are often encouraged to work together on homework assignments, all students must submit their own written work in their own words. It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct at <http://studentlife.osu.edu/csc/>.

**Accommodation:** The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. You are also welcome to register with Student Life Disability Services to establish reasonable accommodations. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. (**SLDS contact information:** [slds@osu.edu](mailto:slds@osu.edu); 614-292-3307; [slds.osu.edu](http://slds.osu.edu); 098 Baker Hall, 113 W. 12<sup>th</sup> Avenue.)

**Mental Health Statement:** As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student’s ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life’s Counseling and Consultation Service (CCS) by visiting [ccs.osu.edu](http://ccs.osu.edu) or calling 614-292-5766. CCS is located on the 4th Floor of the Younkin Success Center and 10th Floor of Lincoln Tower. You can reach an on call counselor when CCS is closed at 614-292-5766 and 24 hour emergency help is also available through the 24/7 National Suicide Prevention Hotline at 1-800-273-TALK or at [suicidepreventionlifeline.org](http://suicidepreventionlifeline.org).

**Final Comment:** It is crucial that we have a mutual respect for one another as members of the OSU community and that we conduct ourselves accordingly. My responsibilities include coming to class prepared to teach you statistics, giving clear lectures, assigning carefully chosen homework problems that are relevant to our course, and carefully preparing quiz and exam questions that accurately measure your progress in the course. Additionally, I am responsible to be available to you outside of class for consultation in office hours and by appointment. Likewise, I expect you to come to class motivated to learn the material. This involves reading the material ahead of time, promptly starting the homework assignments, and seeking additional help before it is too late. Ultimately, you are responsible for your university education and what you take from it.

**I reserve the right to change any and all items on this syllabus – any changes as well as official due dates and exam dates will be announced in class.**

**Tentative Schedule:** (Items marked with “\*” may be omitted)

<b>Date</b>	<b>Lecture Topic</b>	<b>Textbook Reading</b>
1/7	Introduction to the Class; Syllabus	Syllabus
1/9	Review of Combinations/Permutations; Intro to Probability	1.1 – 1.3; 2.1 – 2.3
1/11	Probability Rules	2.4, 2.5
1/14	Conditional Probability; Independent Events	2.6, 2.7
1/16	Independent Events; Bayes' Theorem	2.7, 2.8
1/18	Bayes' Theorem; Random Variables	2.8, 3.1
1/21	No Class; MLK Day	
1/23	Probability Distributions; Continuous Random Variables	3.2, 3.3
1/25	Probability Density Functions; Multivariate Distributions	3.4, 3.5
1/28	Multivariate Distributions	3.5
1/30	Marginal and Conditional Distributions	3.6, 3.7
2/1	Conditional Distributions	3.7
2/4	Expected Value	4.2
2/6	Expected Value; Moments	4.2, 4.3
2/8	Moments; Chebyshev's Theorem	4.3, 4.4
2/11	Moment Generating Functions	4.5
2/13	Product Moments	4.6
2/15	Product Moments; Moments of Linear Combinations of Random Variables	4.6, 4.7
2/18	Moments of Linear Combinations of Random Variables	4.7
2/20	Exam 1 (1.1 – 4.5)	
2/22	Conditional Expectation; Discrete Uniform Distribution; Bernoulli Distribution; Binomial Distribution	4.8, 5.1 – 5.4
2/25	Negative Binomial Distribution; Geometric Distribution	5.4, 5.5
2/27	Hypergeometric Distribution	5.6
3/1	Poisson Distribution; Multinomial Distribution	5.7, 5.8
3/4	Multinomial Distribution; Uniform Distribution	5.8, 6.2
3/6	Uniform Distribution; Gamma Distribution	6.2, 6.3
3/8	Gamma Distribution; Exponential Distribution; Chi-Square Distribution	6.3
3/18	Beta Distribution; Normal Distribution	6.4, 6.5
3/20	Normal Distribution	6.5
3/22	Functions of Random Variables; Distribution Function Technique	7.1, 7.2
3/25	Distribution Function Technique; Transformation Techniques: One Variable	7.2, 7.3
3/27	Exam 2 (4.6 – 6.5)	
3/29	Transformation Techniques: One Variable	7.3
4/1	Transformation Techniques: One and Two Variables	7.3, 7.4
4/3	Transformation Techniques: Two Variables	7.4
4/5	Transformation Techniques: Two Variables	7.4
4/8	Moment Generating Function Technique; Sampling Distributions	7.5, 8.1
4/10	Sampling Distribution of the Mean; Central Limit Theorem	8.2, 8.3
4/12	Sampling Distribution of the Mean; Chi-Square Distribution	8.3, 8.4
4/15	t Distribution; F Distribution	8.5, 8.6
4/17	Order Statistics	8.7
4/19	TBD	
4/22	Final Exam Review*	
4/26	Comprehensive Final Exam 4:00PM – 5:45PM	