

Effective: Late Spring 8-Week, 2019/2020

MATH 250: Statistics I

Location:	Kansas City
Address:	Blue Ridge Tower, 4240 Blue Ridge Blvd., Suite 400 Kansas City, MO 64133-1702
Section:	19SPRG2/MATH/250/ABS1
Semester Credit Hours:	3
Class Day(s) and Time(s):	Wednesday 5:45 PM - 9:45 PM from March 02, 2020 to April 25, 2020

☰ Syllabus Contents

- [Course Information](#)
- [Textbooks](#)
- [Technology Requirements](#)
- [Course Learning Outcomes](#)
- [Grading](#)
- [Schedule of Due Dates](#)
- [Assignment Overview](#)
- [Course Outline](#)
- [Additional Resources](#)
- [Columbia College Policies & Procedures](#)

📘 Course Information

Catalog Description

Introduction to descriptive and inferential statistics. Topics include collection of data, numerical and graphical descriptive methods, linear correlation and regression, probability concepts and distributions, confidence intervals and hypothesis testing for means and proportions.

Prerequisite: Grade of C or higher in MATH 104, or a score of 20 or higher on the math portion of the ACT or a score of 480 or higher on the math portion of the SAT or a passing score on the Columbia College math placement exam. G.E.

📖 Textbooks

As part of Truition[®], students will receive their course materials automatically as described below.

📖 Gould. (2017). *Essential Statistics with MyLab Math Plus* (2nd). Pearson. eText

Bookstore Information

Visit <https://www.ccis.edu/bookstore.aspx> for details. Recommended texts are not included in the Truition®, No Book Costs, model. Students are responsible for purchasing their own recommended text if they desire to have it for class. Recommended eTexts are available for purchase directly from VitalSource.com.

eText Information

If a course uses an eText, (see textbook information above) the book will be available directly in Desire2Learn (D2L) seven days before the session begins, if registered for courses prior to that date. Upon first login to VitalSource, students should use their CougarMail email address; alternate email addresses cannot be used. More information about how to use the VitalSource platform, including offline access to eTexts, can be found in D2L.

Physical Course Materials Information

Students enrolled in courses that require physical materials will receive these materials automatically at the shipping address on file with Columbia College. Delivery date of physical materials is dependent on registration date and shipping location. Please refer to confirmation emails sent from Columbia College for more details on shipping status.

Returns: Students who drop a class are responsible for returning any physical course materials that were shipped. To initiate a return, visit [Ingram Returns](#) to generate a pre-paid return label. Materials from dropped courses must be returned within 30-days of receipt. **Failure to return physical items from a dropped course will result in a charge to the student account for all unreturned items.**

Note: Students who opt-out of having their books provided as part of Truition® are responsible for purchasing their own course materials.

↓ Technology Requirements

THIS IS A TECHNOLOGY-ENRICHED COURSE WHICH COMBINES IN-SEAT INSTRUCTION WITH ONLINE LEARNING.

Participation in this course will require the basic technology for all classes at Columbia College:

- A computer with reliable internet access
- A web browser
- Acrobat Reader
- Microsoft Office or another word processor such as Open Office

For more information, see [technical requirements](#).

📖 Course Learning Outcomes

1. Construct and interpret appropriate graphical displays of qualitative and quantitative data.
2. Describe distributions of quantitative data in terms of shape, center, and spread.
3. Use appropriate methods to explore and describe the relationship between two qualitative or two quantitative variables.
4. Compute and interpret probabilities and conditional probabilities and use probabilities to determine if events are independent.
5. Solve applied problems involving discrete and continuous random variables, including the binomial and normal random variables.
6. Compute and interpret point estimates and interval estimates for a mean or proportion.
7. Test hypotheses for a single mean or proportion using P-values and interpret the results.

🎓 Grading

Grading Scale

Grade	Points	Percent
A	900 - 1000	90-100%
B	800 - 899	80-89%
C	700 - 799	70-79%
D	600 - 699	60-69%

Grade Weights

Assignment Category	Points	Percent
MyLabsPlus Quizzes (6)	150	15%
Weekly Activities (7)	300	30%
MyLabsPlus Homework (7)	200	20%
Final Exam (In-class)	300	30%
Final Exam (Take-home)	50	5%
Total	1000	100%

 Schedule of Due Dates

Week 1

Assignment	Points	Due
Weekly Activity 1	40	TBA
MLP Homework 1	--	Sunday

Week 2

Assignment	Points	Due
Weekly Activity 2	40	TBA
MLP Homework 2	--	Sunday
MyLabsPlus Quiz 1	25	Sunday

Week 3

Assignment	Points	Due
Weekly Activity 3	40	TBA
MLP Homework 3	--	Sunday
MyLabsPlus Quiz 2	25	Sunday

Week 4

Assignment	Points	Due
Weekly Activity 4	40	TBA
MLP Homework 4	--	Sunday
MyLabsPlus Quiz 3	25	Sunday

Week 5

Assignment	Points	Due
Weekly Activity 5	40	TBA
MLP Homework 5	--	Sunday
MyLabsPlus Quiz 4	25	Sunday

Week 6

Assignment	Points	Due
Weekly Activity 6	40	TBA
MLP Homework 6	--	Sunday
MyLabsPlus Quiz 5	25	Sunday

Week 7

Assignment	Points	Due
Weekly Activity 7	40	TBA
MLP Homework 7	--	Sunday
MyLabsPlus Quiz 6	25	Sunday

Week 8

Assignment	Points	Due
Weekly Activity 8	20	TBA
MLP Homework Total	200	Saturday
Final Exam (In-class)	300	TBA
Final Exam (Take-home)	50	TBA
Total Points: 1000		

Assignment Overview

Weekly Graded Activities

Activities will be completed in class and out of class during Weeks 1 – 8. The activities will reinforce course learning objectives using real data and technology when possible. Each activity, given at the discretion your instructor, will be worth 40 points in Weeks 1 – 7 and 20 points in Week 8. Weekly activities could include:

- Short answer questions to give students an opportunity to analyze their results using their own words
- Review of concepts
- Challenge questions
- Group activities/presentations
- Extra homework problem practice
- Practice quizzes/exams
- Questions which combine concepts from previous weeks that “Puts It All Together”
- Other relevant activities as determined by the instructor

The due dates for Weekly Graded Activities are To Be Announced (TBA), but should be no later than the following class period after they are assigned.

MyLabsPlus

This course uses an online learning application called MyLabsPlus, which is designed to accompany your textbook. You must have access to MyLabsPlus in order to complete the online graded homework and quizzes for this course.

MyLabsPlus Homework

Graded MLP Homework will be assigned during Weeks 1 – 7 for you to practice concepts learned in class. You will receive immediate feedback and have the opportunity to work a similar problem for additional practice and earn credit.

Homework will be created by section with multiple sections being assigned per week. Time to complete each question varies so the number of questions per homework section can range from approximately 5 to 30 questions with an expected completion time of 5 to 30 minutes. The expected time to complete all sections of MLP Homework each week would be about 1 to 1-1/2 hours per week.

The MLP Homework grade will be transferred by your instructor at the end of the session. The final score at the end of the session is the one that will be reported in the gradebook and is recorded as the percentage earned in MLP (after 0s are assigned for missing homework) times the 200 points possible for homework assignments.

Graded MLP Homework assignments are due by 11:59 pm Sunday during the weeks they are assigned.

MyLabsPlus Quizzes

There are 6 MyLabsPlus quizzes worth 25 points each covering Chapters 1 - 7. There is a 1 hour time limit and you will be allowed two attempts for every quiz. They are assigned during Weeks 2 – 7, but will open at 12:00 am Friday of the preceding week.

MyLabsPlus Quizzes are due by 11:59 pm Sunday during the weeks they are assigned.

Exams

Final Exam (In-class)

The Final Exam will be a written exam proctored in class with approximately 25 questions. The Final Exam will cover concepts from Chapters 1 – 7 and Sections 9.1 – 9.3 using technology when applicable. You will have one attempt and two hours to

complete the exam. The Final Exam is worth 300 points.

Final Exam (Take-home)

You will submit a Word document to the appropriate Dropbox during Week 8 answering a question(s) that assesses your ability to test hypotheses for a single mean or proportion using P-values and interpret the results. The Take-Home Final Exam is worth a total of 50 points. Questions will require the use of technology to solve. The expected time to complete the question(s) should be approximately 30 minutes.

The due dates for exams are To Be Announced (TBA) during the week they are assigned.

Course Outline

Click on each week to view details about the activities scheduled for that week.

Week 1: Introduction to Data/Graphing of Data

Readings

Textbook: Sections 1.1 – 1.4, 2.1 – 2.5

Weekly Activity 1

Complete the Weekly Activity over concepts from this week.

MLP Homework 1

This online homework assignment covers sections 1.1 – 1.4, 2.1 – 2.5 from your textbook.

Week 2: Numerical Summaries of Center and Variation

Readings

Textbook: Sections 3.1 – 3.5

Weekly Activity 2

Complete the Weekly Activity over concepts from this week.

MLP Homework 2

This online homework assignment covers sections 3.1 – 3.5 from your textbook.

MyLabsPlus Quiz 1

This quiz covers content from Chapters 1 and 2 of your textbook.

Week 3: Regression Analysis and Probability

Readings

Textbook: Sections 4.1 – 4.4, 5.1, 5.2

Weekly Activity 3

Complete the Weekly Activity over concepts from this week.

MLP Homework 3

This online homework assignment covers sections 4.1 – 4.4, 5.1, 5.2 from your textbook.

MyLabsPlus Quiz 2

This quiz covers content from Chapter 3 of your textbook.

Week 4: Probability and Probability Distributions including the Normal Model

Readings

Textbook: Sections 5.3, 5.4, 6.1, 6.2

Weekly Activity 4

Complete the Weekly Activity over concepts from this week.

MLP Homework 4

This online homework assignment covers sections Sections 5.3 – 5.4. 6.1 – 6.2 from your textbook.

MyLabsPlus Quiz 3

This quiz covers content from Chapter 4 of your textbook.

Week 5: The Binomial Model, Survey Sampling and Central Limit Theorem

Readings

Textbook: Sections 6.3, 7.1 – 7.3

Weekly Activity 5

Complete the Weekly Activity over concepts from this week.

MLP Homework 5

This online homework assignment covers sections 6.3, 7.1 – 7.3 from your textbook.

MyLabsPlus Quiz 4

This quiz covers content from Chapter 5 of your textbook.

Week 6: Confidence Intervals and Hypothesis Testing for Population Proportions

Readings

Textbook: Sections 7.4, 8.1 – 8.3

Weekly Activity 6

Complete the Weekly Activity over concepts from this week.

MLP Homework 6

This online homework assignment covers sections 7.4, 8.1 - 8.3 from your textbook.

MyLabsPlus Quiz 5

This quiz covers content from Chapter 6 of your textbook.

Week 7: Inferring Population Means

Readings

Textbook: Sections 9.1 – 9.4

Weekly Activity 7

Complete the Weekly Activity over concepts from this week.

MLP Homework 7

This online homework assignment covers sections 9.1 – 9.4 from your textbook.

MyLabsPlus Quiz 6

This quiz covers content from Chapter 7 of your textbook.

Week 8: Review Week

Readings

Textbook: Review Previous Weeks

Weekly Activity 8

Complete the Weekly Activity over concepts from this week.

MLP Homework Total

The MLP Homework grade will be transferred by your instructor into D2L at the end of the session.

Final Exam (In-class)

You will have one attempt to complete the in-class proctored exam this week.

Final Exam (Take-home)

Submit your take-home Final Exam to the appropriate Dropbox in our D2L course.

+ Additional Resources

Online databases are available at library.ccis.edu. You may access them using your CougarTrack login and password when prompted.

Technical Support

If you have problems accessing the course or posting your assignments, contact your instructor, the Columbia College Technology Solutions Center, or the D2L Helpdesk for assistance. If you have technical problems with the VitalSource eText reader, please contact VitalSource. Contact information is also available within the online course environment.

- Columbia College Technology Solutions Center: CCHelpDesk@ccis.edu, 800-231-2391 ex. 4357
- D2L Helpdesk: helpdesk@d2l.com, 877-325-7778
- VitalSource: support@vitalsource.com, 1-855-200-4146

Online Tutoring

Smarthinking is a free online tutoring service available to all Columbia College students. Smarthinking provides real-time online tutoring and homework help for Math, English, and Writing. Smarthinking also provides access to live tutorials in writing and math, as well as a full range of study resources, including writing manuals, sample problems, and study skills manuals. You can access the service from wherever you have a connection to the Internet. I encourage you to take advantage of this free service provided by the college.

Access Smarthinking through CougarTrack at [Students -> Academics -> Resources](#).

! Columbia College Policies and Procedures

The policies set forth in the [Policy Library](#) are the current official versions of College policies and supersede and replace any other existing or conflicting policies covering the same subject matter. For more information on policies applicable to students, see [Student Policies](#). For more information on policies applicable to the entire Columbia College community, see [College-Wide Policies](#).

Students are expected to read and abide by the College policies. Policies of particular interest to students include, but not limited to the following:

- Graduate Grading Policy
- Undergraduate Grading Policy
- Registration Policy and Procedures
- Withdrawal Policy
- Alcohol and Other Drugs Policy
- Family Educational Rights and Privacy Act (FERPA)

Additional Policies:

Academic Integrity and Plagiarism

Academic integrity is a cumulative process that begins with the first college learning opportunity. Students are responsible for knowing and abiding by the [Academic Integrity Policy and Procedures](#) and may not use ignorance of either as an excuse for academic misconduct. Additionally, all required papers may be submitted for textual similarity review to Turnitin.com for the detection of plagiarism. All submitted papers may be included in the Turnitin.com reference database for the purpose of detecting plagiarism. This service is subject to the Terms and Conditions of Use posted on the Turnitin.com site.

Disability Resources

If you have a disability that requires an accommodation, please speak with the instructor and consult the [Student Accessibility Resources](#) office. Student Accessibility Resources staff will determine appropriate accommodations and will work with your

instructor to make sure these are available to you. To find additional information, see our [ADA and Section 504 Policy for Students](#).

Notice of Non-Discrimination and Equal Opportunity:

The College has a process through which students, faculty, staff and community members who have experienced or witnessed incidents of discrimination, harassment, or retaliation on the basis of protected status, can report their experiences to a College official. For more information, see our [Non-Discrimination and Equal Opportunity Policy and Complaint Resolution Procedure](#).

Title IX and Sexual Misconduct

The College is committed to addressing the issues of discrimination, harassment and sexual misconduct in the educational and workplace landscape and will continue to modify policies, procedures and prevention efforts as needed. For more information, see the College's [Title IX and Sexual Misconduct Policy](#).

Course Policies and Procedures:

Attendance Policy

Columbia College students are expected to attend all classes and laboratory periods for which they are enrolled.

For classes with an online component, attendance for a week includes submitting any assigned online activity. Assigned activities are scheduled prior to the course commencing. Assigned activity due dates are subject to change based on actual course progression and will be adjusted as necessary. Attendance for the week is based upon the date work is submitted. A class week is defined as the period of time between Monday and Sunday (except for week 8, when the work and the course will end at 11:59 PM Central Time on Saturday.) The course and system deadlines are based on the Central Time Zone.

Students are directly responsible to instructors for class attendance and work missed during an absence for any cause. If absences jeopardize progress in a course, the College reserves the right to drop or withdraw students from classes. For additional information, see the Administrative Withdrawal for Non-Attendance heading in the [Withdrawal Policy](#).

CougarMail

All students are provided a CougarMail account when they enroll in classes at Columbia College. You are responsible for monitoring email from that account for important messages from the College and from your instructor.

Students should use email for private messages to the instructor and other students. The class discussions are for public messages so the class members can each see what others have to say about any given topic and respond.

Late Assignment Policy

All classes rely on participation and a commitment to your instructor and your classmates to regularly engage in the reading, discussion and writing assignments. You must keep up with the schedule of reading and writing to successfully complete the class.

No late assignments will be accepted without the prior approval of the instructor.

Acceptance of a late assignment is at the discretion of the instructor.

Make-up examinations may be authorized for students who miss regularly-scheduled examinations due to circumstances beyond their control. Make-up examinations must be administered as soon as possible after the regularly scheduled examination period and must be administered in a controlled environment.

Student Conduct

All Columbia College students, whether enrolled in a land-based or online course, are responsible for behaving in a manner consistent with Columbia College's [Student Conduct Code](#) and [Acceptable Computing Use Policy](#). Students violating these policies or any other College policy will be referred to the office of Student Affairs and/or the office of Academic Affairs for possible disciplinary action. The Student Code of Conduct, the [Student Behavioral Misconduct Policy and Procedures](#), and the Acceptable Computing Use Policy can be found in the Policy Library at ccis.edu/policies. The adjunct faculty member maintains the right to manage a positive learning environment all students must adhere to the conventions of online etiquette when enrolled in a course with an online component.