



Course Title and Number: STAT 243Z Elementary Statistics I		Instructor: Benjamin Holt	
Year and Term: Fall 2026	Course Credits: 4		Office Location: Sitkum 2C
Office Phone: (541) 888-7608	Student Support Hours: Tues: 10 am – 11:50 am Thur: 10 am – 11:50 am, 2 pm -2:50 pm		Class Location: Online
Meeting Time/Days: Online: See course schedule on the last 3 pages of this syllabus.		Email Address: benjamin.holt@socc.edu (PLEASE use Canvas or your socc.edu account! I will not reply to emails from any other place.) Emails answered during student support hours.	
Web Page Address: https://holt.blue/MTH_243/homepage.html		Fax Number:	

Course Description <i>(as it appears in the approved College Course Outline)</i>	A first course in statistics focusing on the interpretation and communication of statistical concepts. Introduces exploratory data analysis, descriptive statistics, sampling methods and distributions, point and interval estimates, hypothesis tests for means and proportions, and elements of probability and correlation. Technology will be used when appropriate.
Course Objectives <u>Reflecting Expected Student Learning Outcomes</u>	Upon completion of the course the learner will: • 1. Critically read, interpret, report, and communicate the results of a statistical study along with evaluating assumptions, potential for bias, scope, and limitations of statistical inference. • 2. Produce and interpret summaries of numerical and categorical data as well as appropriate graphical and/or tabular representations. • 3. Use the distribution of sample statistics to quantify uncertainty and apply the basic concepts of probability into statistical arguments. • 4. Identify, conduct, and interpret appropriate parametric hypothesis tests. • 5. Assess relationships in quantitative bivariate data.
Grading	Course Activities Video Lectures: For each topic this course covers, there is a video lecture outlining the points covered in the course textbook. I strongly advise taking <u>handwritten notes</u> (which you may use on exams) during these videos and writing down questions you might have about the material. You may find the videos here:



https://holt.blue/MTH_243/lecture_videos_online.html

Please see the course schedule on the last page of this syllabus which contains suggested viewing schedule for the lecture videos.

Also, please note I will consider the topic to have been covered whether you choose to watch the video or not.

Online Homework and Practice: For every section in the textbook listed in the syllabus course schedule (last page of this syllabus), there is a homework assignment. Every homework assignment will consist of 10 multiple-choice questions drawn randomly from a test bank of problems. To pass an assignment, you must get a grade of at least 70%. You may attempt the assignment as many times as you like. Each homework assignment is completed online where you will earn a pass code. You may complete the homework either in Canvas, or you may go to

https://holt.blue/MTH_243/homework_online.html

Please follow the instructions for completing and submitting homework. When you earn a pass code, you will upload it into Canvas. Each pass code submitted on time will receive the full 15 points regardless of the score. This is to honor the time you put into the homework. Your homework grade is your pass code average.

Due dates for pass codes are given in course schedule on the last page of this syllabus.

Online homework pass codes uploaded late will receive half credit.

After verifying the pass code, I will then update Canvas. Please note that:

- 1) Images or screenshots of pass codes are NOT accepted.
- 2) You are advised to keep a file containing all your pass codes in case of any possible mishaps. For example, if a student uploads a pass code for the wrong assignment.
- 3) Pass codes from previous terms are not considered valid and will not be accepted for the present term.



Data Showcase Discussions: Over the course of the term you will be asked to collect data on some numerical aspect of your life which you can measure daily and which you feel comfortable telling the rest of the class about.

Some examples of acceptable data to collect include:

- The amount of sleep you get each night.
- The number of texts you send each a day.
- The amount of time spent playing video games per day.
- The time it takes you solve a Rubik's cube.

You are welcome to use one of the above examples, or choose your own. If you have any doubts, please let me know, and we can discuss something.

There are two requirements for your data set:

- You must be able to safely collect your data. Data collection cannot involve any dangerous activity.
- Your data must exhibit some variability. All of the examples above exhibit some degree of variability. On the other hand, if you drink two cups of coffee each day without exception, there is no variability. So, this would not be an acceptable for this group of assignments. In fact, it's quite boring. So please give the group something interesting.

The first Data Showcase Discussion will consist of telling the group:

- A little bit about yourself.
- The data you intend to collect.
- A guess for what you think your true average is. For example: "My guess is that I get 7.5 hours of sleep on average."

For the rest of the Data Showcase Discussions, please see Canvas.

Data Showcase Discussions posted late will receive half credit. Late submissions are only allowed one attempt.

Exams: There will be two exams, a midterm and a final, over the course of the term covering material up to each exam. Every exam will consist of 20 multiple-choice questions drawn randomly from our test question bank which consists of problems similar to those in the online homework.



Every exam you take in this class will generated from

https://holt.blue/MTH_243/mcqs.html

and there you may generate as many practice exams as you like. As you will see from using the above resource, none of the exams will be cumulative.

Honorlock Proctoring: Exams will be offered online via Canvas and proctored by Honorlock. You have two attempts, and only the latest attempt will count, not the highest.

- 1) Each attempt must be completed in one sitting.
- 2) Each attempt must be taken alone.
- 3) **Other than the device you use the take the exam, you may not use any other devices with online capabilities. These include, but are not limited to, mobile phones, handheld calculators, tablets, smartwatches, etc. The use of artificial intelligence (AI) is also not allowed during exams.**

Allowable Resources on Exams: For the online exams, you may access **ONLY** the following four resources:

1) Handwritten Notes: For the exam you may use your physical, **handwritten** notes. **Printed materials are not allowed.**

2) The Holt.Blue Statistical Software Suite created for this course:

https://holt.blue/MTH_243/Resources/stats_suite.html

3) The Desmos Online Scientific calculator:

<https://www.desmos.com/scientific>

4) Exam-Friendly Tables and Handouts. There are a total of 4 exam-friendly handouts which you are welcome to access electronically during exams:

(a) An electronic copy of the Midterm Friendly Formula Sheet available at:

https://holt.blue/MTH_243/Resources/midterm_formulas.pdf

(b) An electronic copy of Table A available at:

https://holt.blue/MTH_243/Resources/z_table.pdf



(c) An electronic copy of Table B available at:
https://holt.blue/MTH_243/Resources/t_table.pdf

(d) An electronic copy of the Final-Exam-Friendly Formula Sheet available at:
https://holt.blue/MTH_243/Resources/final_exam_formulas.pdf

Important: Other than the device you use to take the exam, you may **NOT** use any other devices. Such devices included, but are not limited to, handheld calculators, phones, tablets.

Violation of this policy is grounds for awarding a zero grade on the exam.

Academic Integrity During Online Proctoring Sessions. If for any reason I am unsatisfied with the integrity of an online proctoring session, or if I have any reason to believe that a student may have engaged in academic dishonesty, I reserve the right to award a score of zero for the exam. If a student disagrees with this score, they may meet with me individually to discuss why they believe the score is unjustified. Be advised that the meeting will include an oral and/or written assessment of the student's knowledge.

To avoid the above situation, I suggest the following:

1) Perform a thorough scan of your surroundings, including your desk or table top, showing all the items you will be working with. An example of a complete room scan can be found here:

<https://prep.honorlock.com/authentication/room-scan>

Failure to do this is grounds for awarding a zero grade on the exam.

2) Prepare for the session like you would for an exam proctored in a physical classroom space.

3) Behave as you would for an exam proctored in a physical classroom. For example, don't wear earbuds or headphones, complete your exam in a single sitting, etc.



Mandatory Honorlock Module: There will be an “Honorlock Prerequisites” module in Canvas which you must complete before you are allowed to take any exams. This includes a syllabus quiz which will take place in Honorlock. The purpose of the module is to help you get familiar with the software and hardware requirements. It will also help you to get familiar with the support available if you have any issues.

1) Any exam taken late as a result of not completing this module will be considered a **missed exam**.

2) Any exam taken late without documented evidence of contacting Honorlock support will also be considered a **missed exam**.

Students who need reasonable accommodation should contact the instructor or call Disability Services for Students at 541-888-7405.

Policies on Missed Exams and Late Work:

Late homework pass codes can be made up for half credit any time before the last day of the term (listed in myLakerLink).

Late Data Showcase Discussions can be made up for half credit any time before the last day of the term (listed in myLakerLink), **but only one submission is allowed**.

Missed exams can be made up with a deduction of 20 points from whatever score is received. If such a deduction results in a negative score, a zero will be entered for the grade. Missed exams must be made up **BEFORE** the end of finals week.

No graded items will be accepted after the last day of the course listed in myLakerLink.

Course Grade: Your course grade is determined by the following items and their associated weights:

Online Homework: **15%**
Data Showcase Discussions: **15%**
Midterm Exam (100 points): **35%**
Final Exam (100 points): **35%**



	90≤Course Grade A 80≤Course Grade<90 B 70≤Course Grade<80 C 60≤Course Grade<70 D Course Grade<60 F Please Note: • 1. No graded items will be accepted past the deadline 11:59 pm on the last day of the course listed in myLakerLink. • 2. Your final course grade will NOT be rounded up no matter how close it is to the next letter grade. Ample opportunity is provided during the term to earn the grade you want and it is your job to make sure your grade lands where you want it. I will not respond to emails asking me to round grades up. • Pass codes from previous terms are NOT considered valid and will not be accepted for the present term.
Text(s)	Optional Text(s): Open Stax Introductory Statistics, Barbara Illowsky and Susan Dean. The electronic version (ISBN 978-1-947172-05-0) is freely available on the course website, and printed copies (ISBN 978-1-938168-20-8) are available in the campus bookstore for purchase.
Required Materials	
Term Calendar <i>(The instructor reserves the right to alter dates of presentations and exams/projects.)</i>	Please see the course calendar on the last page of this syllabus.
Prerequisites	MTH 95 or MTH 105Z is a prerequisite for this course. If you did not pass MTH 95 or MTH 105Z with a "C" or higher, you may be administratively withdrawn from this course within the refund period. This withdrawal could affect your financial aid and/or academic standing. If you are uncertain about whether you have passed MTH 95 or MTH 105Z with a "C" or higher, check MyLakerLink or with your advisor within the first week of class to ensure you have met the course prerequisites.
Availability of Tutoring, Learning Lab, Academic Support	In addition to office hours I highly recommend that you visit the tutoring center on the 3rd floor of the Tioga building. There are tutors there waiting to help you! Also, tutoring services are FREEEEEEEEEEEEEEEEEEEEEEEE!!!!



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Policies and Guidelines

Components marked with asterisk (*) are required for every syllabus.

* Course Hours

Southwestern's Credit Hour Administrative Policy (APP 8191) stipulates that credit-bearing courses, regardless of delivery method, are scheduled and conducted in compliance with the definition of the credit hour as set forth in Section 600.2 and 600.24 of the Code of Federal Regulations and the NWCCU Policy on Credit Hour. For this reason, students are expected to complete a minimum of two hours of out-of-class student work per credit hour each week for the quarter.

* Children in the Classroom

Children represent a disruptive element for the classroom. They also increase the risk of accidents occurring in the laboratory. For those reasons, children should not be brought to either the classroom or the laboratory.

* Academic Honesty: Plagiarism And Cheating

Cheating, plagiarism, and other acts of academic dishonesty are regarded as serious offenses. Instructors have the responsibility to submit, in a written report to the Dean of Students any such incident that cannot be resolved between the instructor and student. The policy of the Board of Education of Southwestern Oregon Community College on Student Rights, Student Code of Conduct, and Student Grievance Procedure outlines penalties ranging from admonition to expulsion from the class or college. In the policy, academic plagiarism is defined as: "The intentional submission for evaluation to a college instructor or administrator of material based, in significant part, on work done by someone other than the submitter without reasonable written indication to the evaluator of the material's true source." Academic cheating is defined as "The intentional submission for evaluation to a college instructor or administrator of material based, in part, on a source or sources forbidden by generally accepted standards or by regulation established by the evaluator and disclosed in a reasonable manner." The complete policy, student rights and responsibilities, penalties, and recourse through the Grievance Procedure can be found in the Student Handbook (<http://www.socc.edu/studentlife/pgs/bm~doc/socc-hb.pdf>).

* Academic Ethics and Confidentiality

It is the responsibility of everyone engaged in the learning experience to respect the rights and feelings of their fellow learners. Information gathered in the classroom and from on-line discussions and exercises is to be considered confidential. At the same time, students must recognize that the instructor and the College cannot guarantee the confidentiality of what the student may choose to disclose. Students must use their own discretion when engaging in classroom discussion.

* Classroom Behavior

Instructors have the responsibility to set and maintain standards of classroom behavior appropriate to the discipline and method of teaching. Students may not engage in any activity which the instructor deems disruptive or counterproductive to the goals of the class. Students are required to keep cell phones, beepers, and pagers off during class lectures, unless there is permission in advance from the instructor. Instructors have the right to remove offending students from class. Repetition of the offense may result in expulsion from the course.

* Student Conduct

Opt #1: Students must read and be familiar with the Code of Conduct as published in the Student Handbook, policies and procedures as outlined in campus publications, Southwestern Oregon policies.

Opt. #2: Students in this (or any) program of study should be especially aware of the severe consequences of plagiarism. Students that submit work that is not their own will be dealt with quickly and severely. It will be the recommendation of the faculty to remove such students from the College.

Opt. #3: Students that have a concern regarding any inappropriate conduct should bring it to the attention of their instructor, advisor, or Department Chair immediately. Inappropriate conduct situations will be reviewed immediately.

Opt. #4: Students taking this course should be aware of the potential diversity of the artistic perception of the



participants - particularly as applicable to violence, artistic statements, and nudity. Please keep your material and remarks professional and appropriate and be sensitive to individuals that have views different than your own.

***Americans with Disability Act – Disability Accommodation Statement**

SWOCC recognizes the contribution that a diverse student body brings to the educational experience. If you have a documented disability that may require assistance, please contact the Accessible Education Office. If you are a student who already has approved accommodations, you are required to talk with your instructors sometime during the first two weeks of the term regarding the accommodations you intend to use in their course.

The Accessible Education Office is located on the Southwestern Coos Bay campus in Student Support Services, Stensland Hall. For more information:

1. Visit Accessible Education Services or
2. Call (541) 888-1578 or
3. Email accessibility@socc.edu

***Basic Needs Statement**

Our college is dedicated to ensuring every student's academic success and well-being. If you face challenges like food insecurity or housing instability, contact our Benefits Navigator for confidential assistance and community referrals. We aim to create a supportive environment where all students thrive.

541-888-7462 or benefitsnavigator@socc.edu



***Notice of Non-Discrimination**

Students, their families, employees and potential employees of the Southwestern Oregon Community College District are hereby notified that Southwestern Oregon Community College does not discriminate on the basis of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity, or protected veterans in employment, education, or activities as set forth in compliance with federal and state statutes and regulations. Any persons having inquiries concerning Southwestern's compliance with Title II, Title IV, Title VI, Title VII, Title IX and/or Section 504 or wish to make a complaint may contact the College's Affirmative Action Officer:

Vice President of Administrative Services
Southwestern Oregon Community College
1988 Newmark Ave., Tioga Hall, Room 511
Coos Bay, OR 97420
(541) 888-7402

Southwestern Oregon Community College offers the following career and technical education programs for all students regardless of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity or protected veteran status, including those with limited English proficiency: Business, Office Technology, Computer Technology, Childhood Education, Criminal Justice, Culinary, Fire Sciences, Health Sciences, and Welding and Fabrication. Persons seeking further information concerning the vocational education offerings and specific pre-requisite criteria should contact:

Ali Mageehon, Vice President of Instruction and Student Services
Southwestern Oregon Community College
1988 Newmark Ave., Tioga Hall, Room 506
Coos Bay, OR 97420
(541) 888-7417 ali.mageehon@socc.edu

***Grievances**

For more information on the grievance process visit the Student Handbook.

Class Cancellations (Faculty Absence)

Notices of class cancellations at SWOCC are made through an automated system called RAVE. Notices of class cancellations due to faculty absence will be sent to through the following devices: Voicemail to cell phone, text to cell phone, and email to college email account. To receive these important notices, please update your cell phone, telephone and email contact information through myLakerLink, click on the Student Information tab, then Rave User Portlet.

Cell Phone Use Policy

Given the disruptive potential posed by cell phones, students are required to keep cell phones off during class lectures. Use of cell phones during laboratory exercises are permissible, but please consider those around you.



Day	Topic	Due
M 9/14	Course Introduction	Pass Code: Syllabus Quiz
T 9/15	Section 1.1: Definitions & Key Terms	
W 9/16	Section 1.2: Data & Sampling	
R 9/17	Section 1.3: Frequencies & Tables	
Sun 9/20		Pass Codes: 1.1, 1.2, 1.3 Data Showcase Discussion 1: Intro+Data to be Collected+Guess
M 9/21	Section 1.4: Experimental Design & Ethics	
T 9/22	Section 2.2: Histograms & Frequency Polygons	
W 9/23	Section 2.3: Measures of the Location of Data	
R 9/24	Section 2.4: Box Plots	
Sun 9/27		Pass Codes: 1.4, 2.2, 2.3, 2.4
M 9/28	Section 2.5: Measures of Center	
T 9/29	Section 2.6: Skewness	
W 9/30	Section 2.7: Measures of Spread	
R 10/1	Section 12.2, 12.3, & 12.4: Scatterplots, Correlation, & Linear Regression	
Sun 10/4		Pass Codes: 2.5, 2.6, 2.7, 12.2-12.4 Data Showcase Discussion 2: First Update
M 10/5	Section 3.1: Probability Terminology Section 3.2: Independent & Mutually Exclusive Events	
T 10/6	Section 4.1: Discrete Probability Distributions	
W 10/7	Section 4.2: Mean & Standard Deviation	
R 10/8	Section 4.3: The Binomial Distribution	
Sun 10/11		Pass Codes: 3.1, 3.2, 4.1, 4.2, 4.3
M 10/12	Honorlock Prerequisites module & Study for Midterm	
T 10/13	Honorlock Prerequisites module & Study for Midterm	
W 10/14	Honorlock Prerequisites module & Study for Midterm	
R 10/15	Honorlock Prerequisites module & Study for Midterm	
Sun 10/18	The Midterm Exam Review/Practice pass code may be earned here: https://holt.blue/MTH_243/mcqs.html	Pass Code: Midterm Review/Practice Honorlock Prerequisites module Due (Must complete entire module to take exam.) Data Showcase Discussion 3: Second Update



M 10/19	Midterm Exam (Honorlock)	Exam access opens 12 am. Choose one of these days.
T 10/20	Midterm Exam (Honorlock)	Choose one of these days.
W 10/21	Midterm Exam (Honorlock)	Choose one of these days.
R 10/22	Midterm Exam (Honorlock)	Choose one of these days.
F 10/23	Midterm Exam (Honorlock)	Choose one of these days.
Sat 10/24	Midterm Exam (Honorlock)	Choose one of these days.
Sun 10/25	Midterm Exam (Honorlock)	Choose one of these days. Exam access closes 11:59 pm.
M 10/26	Section 5.1: Continuous Probability Distributions	
T 10/27	Section 5.2: The Uniform Distribution	
W 10/28	Section 6.1 & 6.2: The Normal Distribution	
R 10/29	Section 7.1 & 7.3: The Central Limit Theorem	
Sun 11/1		Pass Codes: 5.1, 5.2, 6.1-6.2, 7.1-7.3
M 11/2	Section 8.1: Confidence Intervals for a Population Mean (σ Known)	
T 11/3	Section 8.2: Confidence Intervals for a Population Mean (σ Unknown)	
W 11/4	Section 8.3: Confidence Intervals for a Population Proportion	
R 11/5	Section 9.1-9.4: Tests of Significance: The Big Idea	
Sun 11/8		Pass Codes: 8.1, 8.2, 8.3 Data Showcase Discussion 4: 95% Confidence Interval
M 11/9	Section 9.5: Tests of Significance for a Population Mean (σ Known)	
T 11/10	Section 9.5: Tests of Significance for a Population Mean (σ Unknown)	
W 11/11	Veterans Day Holiday	
R 11/12	Section 9.5: Tests of Significance for a Population Proportion	
Sun 11/15	The <u>Final</u> Exam Review/Practice pass code may be earned here: https://holt.blue/MTH_243/mcqs.html	Pass Codes: 9.1-9.4, 9.5 Part 1, 9.5 Part 2, 9.5 Part 3, Final Review/Practice Data Showcase Discussion 5: Test of Significance
M 11/16	Final Exam (Honorlock)	Exam access opens 12 am. Choose one of these days.
T 11/17	Final Exam (Honorlock)	Choose one of these days.
W 11/18	Final Exam (Honorlock)	Choose one of these days.
R 11/19	Final Exam (Honorlock)	Choose one of these days.
F 11/20	Final Exam (Honorlock)	Choose one of these days.
Sat 11/21	Final Exam (Honorlock)	Choose one of these days.



Sun 11/22	Final Exam (Honorlock)	Choose one of these days. <u>Exam access closes 11:59 pm.</u>
M 11/23	Final Exam Week: Make-Up Exams (missed exams taken with penalty); Oral Exams (compromised Honorlock sessions)	Turn in late assignments
T 11/24	Final Exam Week: Make-Up Exams (missed exams taken with penalty); Oral Exams (compromised Honorlock sessions)	Turn in late assignments
W 11/25	Final Exam Week: Make-Up Exams (missed exams taken with penalty); Oral Exams (compromised Honorlock sessions)	Turn in late assignments Turn in any OPTIONAL Extra Credit Pass Codes <u>No graded items will be</u> <u>accepted past this date.</u>