

Course Syllabus

Portland Community College | 12000 SW 49th Ave, Portland, OR 97219 | (971) 722-6111

This syllabus introduces you to the goals of the course and how we will be working together this term. Please read it carefully and contact me if you need further clarification.

Course Information

- Course Title: Elementary Statistics I
- Course Number: STAT 243Z
- CRN: 13446
- Credits: 4
- Term and Year: Winter 2026
- Prerequisites: MTH 95 or MTH 98 or higher, and (RD 115 and WR 115) or IRW 115 or equivalent placement.
- Class Meetings & Times: Mondays and Wednesdays, 9:00AM - 11:50 AM
- Modality / Location: In Person, TABOR 142, Southeast Campus

Instructor Information

- Instructor: Miranda Ramsey
- Email: miranda.ramsey@pcc.edu
- Phone: 971-722-3542
- Office Location: Southeast SCOM 214
- Office Hours: Mondays and Wednesdays 12-1, or by appointment
- School Address: Portland Community College, 12000 SW 49th Ave., Portland, OR 97219

Course Description

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. This course is part of Oregon Common Course Numbering. MTH 243, STAT 243, and STAT 243Z are equivalent at PCC. The PCC Mathematics Department recommends that students take MTH courses in consecutive terms. Audit available. Read the [Course Content and Outcomes Guide here](#).

Learning Outcomes

Upon successful completion of this course, students should be able to:

- Critically read, interpret, report, and communicate the results of a statistical study along with valuating assumptions, potential for bias, scope, and limitations of statistical inference.

- Produce and interpret summaries of numerical and categorical data as well as appropriate graphical and/or tabular representations.
- Use the distribution of sample statistics to quantify uncertainty and apply the basic concepts of probability into statistical arguments..
- Identify, conduct, and interpret appropriate parametric hypothesis tests.
- Assess relationships in quantitative bivariate data.

For more information, please go to the [Course Content and Outcome Guide](#) for this course.

Instructional Materials

Textbook(s)

- This class will rely heavily on non-textbook materials. However, the work we do will reference the book [Advanced High School Statistics](#) . This is a free textbook you can access online. You may purchase a paper copy for a small price, if you want.

Software/Hardware/Equipment

We will be using a number of free software options in this class. To access these outside of our classroom, you will need to have access to a personal computer with a recommended browser installed. We will be accessing the following:

- [D2L Brightspace](#), our primary learning platform with PCC,
- [Desmos](#), a free online graphing calculator,
- [MyOpenMath](#), where you will complete weekly homework assignments and quizzes, and
- [Amplify Classroom](#), where we will occasionally complete lab activities.

Please visit the technology support section of [Student Support Resources](#) for a complete list of apps and tools for PCC students.

Technical Expectations

The technical requirements for the course include:

- [Technology Requirements for taking an online course at PCC](#)
- [A recommended Internet Browser installed](#)
- [Ability to use Google Drive and Google Docs](#)
- Webcam and/or microphone for meetings and online appointments

Accessibility

This course uses digital courseware, software, or texts that may cause barriers for those using assistive, or accessibility-related technologies. If you encounter barriers, please contact the Access Tech Team at access-tech-group@pcc.edu or by calling 971-722-TECH (971-722-8324).

Attendance & Participation

Students are expected to attend each scheduled class period. Credit will be given each day for:

- Arriving on time with all necessary materials. (2 points)

- Engaging with the group during the lab portion. (2 points)
- Staying for the full duration of the class. (1 point)

First Week Activities

During the first week of the term, instructors must record students who are not in attendance or engaging in the class. Students who have not done the following will be dropped according to PCC's [G302 Grading Guidelines policy](#).

- In order to avoid being dropped as a "No Show" student, you must complete the following activities by their deadlines:
 - Attend all of the first days of class up to the drop deadline.
 - Enroll in the MyOpenMath course and complete the first week's assignments.
 - Complete and submit the first week's lab assignments.
 - Complete and submit the Student Info Assignment.

If you are unable to complete one of these requirements but want to remain enrolled in the class, you must speak with me to make an alternative arrangement to show engagement in the course.

Graded Assignments & Feedback

For more information, please go to the [PCC Grading Guidelines](#).

Student Info Assignment

A small amount of credit will be given for completing the Student Info Assignment in the first week of class.

Attendance

Each day of class you will receive a grade based on arriving on time, having all of your required course materials, engaging and participating during the lab time, and staying until the end of class.

Homework

Each week will have a homework assignment on MyOpenMath (often split into two question sets, e.g. Homework 1a and Homework 1b) and a quiz. You will complete the homework in two parts.

1. First, you will answer the questions in MyOpenMath. The questions are set up to give you as many chances as you need to get the right answer. Many questions have supportive videos or explanations to help you through the problem, or another one like it. You can keep trying until you get all of the answers right.
2. Once you have gotten all of the correct answers, you will complete a homework write-up on paper. See the homework and lab guidelines below for instructions for completing the homework write-up.

Quizzes

Most weeks will have a corresponding quiz in MyOpenMath. For quizzes, you will submit written work either through MyOpenMath or on paper.

Lab Work

Each day after a lecture covering the material, you will complete an activity with your group. For full credit, you will write up a conclusion to the activity using the same guidelines as the homework and submit at the end of class. See the homework and lab guidelines below for instructions for completing the lab write-up.

Exams

There will be two exams. The midterm exam will be on February 9 during our normal class time. The final exam will be on March 16 during our normal class time.

Late Work & Make-up Policy

Students are expected to complete all assignments on pace with the course. However, I understand that external things get in the way. On MyOpenMath, students are given six "latepasses" which they may use to apply extensions to their work.

All homework assignments must be completed before the final exam, regardless of late passes. For assignments without late passes, I will consider giving up to 1 week extension when requested before the original due date of the assignment. If you must miss an exam, you must arrange a make-up exam with me before the day of the exam..

Grading Criteria

Please read over all assignments and discussion prompts in advance and reach out if you have any questions or if you want to confirm you understand them correctly. Clarifying questions will help you avoid deductions in your grades. Learn more about the [Grading Guidelines at PCC](#).

Instructors: Edit table as needed.

Activities	Number	Points Each	Total
Student Info	1	15	15
Attendance	17	5	85
Homework	16	(Total from M.O.M.)	100
Quizzes	9	10	80
Midterm Exam	1	100	100
Final Exam	1	120	120
Total			500

Grading Scale

Letter Grade	Grading Scale by Points	Grading Scale by Percentage
A	450-500	90 - 100%
B	400-449	80 - 89%
C	350-399	70 - 79%
D	300-349	60 - 69%
F	< 300	< 59%

PCC Policies and Deadlines

Visit the [PCC Policies](#) page for information on:

- Academic Integrity Policy
- Accessibility Statement & Resources
- Drop/Withdraw Deadlines
- Grading Policy
- Internet Etiquette
- PCC Payment Policy
- PCC Registration Policy
- Sanctuary College
- Student Rights and Responsibilities
- Title IX/Non-Discrimination

Drop/Withdraw Deadlines

A student is responsible to add/ drop/ withdraw classes. Please review [PCC Registration Policy](#) for more information.

Add and Drop Deadlines

- Students need to register online via MyPCC. Please review the [Online Registration Instructions](#) to find out how.
- For 8-12 week classes, students need to drop out by the end of the first week of classes. Students can view course specific deadlines from the MyPCC Home tab, 'View My Drop & Withdraw Dates' link.
- For late add, students must add within two business days of the course drop deadline.

Accommodations and Services

PCC is committed to supporting all students. If you plan to use academic accommodations for this course, please contact your instructor as soon as possible to discuss your needs. Accommodations are not retroactive; they begin when the instructor receives the “Approved Academic Accommodations” letter from you (submitted in person for courses on campus; via email for Online Learning courses). To request academic accommodations for a disability, please contact an Accessible Education & Disability Resources counselor on any PCC campus. Office locations, phone numbers, and additional information may be located on the [Accessible Education & Disability Resources website](#).

Student Rights and Responsibilities

Students are required to complete this course in accordance with the [Student Rights and Responsibilities Handbook](#). The Handbook establishes students' freedoms and protections as well as expectations of appropriate behavior and ethical academic work. The Handbook includes items such as the Policy on Student Rights, and the Student Code of Conduct Policy and Procedures.

Generative AI Statement

The use of generative AI tools, including but not limited to ChatGPT, to complete your work is strictly prohibited and will be considered equivalent to unauthorized sharing of work or plagiarism. **All AI use is strongly discouraged, even as a study tool.** I want to help you build a strong internal understanding of the material without relying on outside tools. If you have a question or need help, please reach out to me instead. In return, **I promise that I will not use generative AI in my relationship with you as your instructor.** Any feedback you receive on your work will be my authentic human response to you.

Academic Integrity (rules about cheating, plagiarism, or sharing work)

The handbook contains the Code of Student Conduct and the Academic Integrity Policy. Cheating includes any attempt to defraud, deceive, or mislead the instructor in arriving at an honest grade assessment, and may include copying answers from other students or using unauthorized notes during tests. Plagiarism is a particular form of cheating that involves presenting as one's own the ideas or work of another and may include using other people's ideas without proper attribution and submitting another person's work as one's own. Dishonest activities such as cheating on exams and submitting or copying work done by others will result in disciplinary actions including but not limited to receiving a failing grade. For further information, review the institution's [Academic Integrity Policy](#).

Internet Etiquette (or Netiquette)

[Click here for more information about Netiquette.](#)

Sanctuary College Statement

PCC is a sanctuary college. For more information and resources, see the [resources for undocumented students page](#).

Inclement Weather Statement

Our course is typically unaffected by college campus and facility closures or delayed class start times. Our regular due dates [and Zoom class meeting times (if a remote class)] apply. However, if PCC must close all operations, our regular due dates will be adjusted accordingly. Please check your email for my instructions and continue to check Brightspace during closures.

Flexibility Statement

The instructor reserves the right to modify course content and/or substitute assignments and learning activities in response to institutional, weather, or class situations.

Course Calendar

Week	Monday	Wednesday	MyOpenMath
Week 1 January 5 - January 11	Introduction to Statistics and Inference	Data Collection	Orientation (due 1/6) Homework 1a Homework 1b Module 1 Quiz
Week 2 January 12 - January 18	Numerical Data Due: Student Introduction	Boxplots, Outliers, Z-scores, and Side-by-Side Boxplots	Homework 2a Homework 2b Module 2 Quiz
Week 3 January 19 - January 25	No Class Dr. Martin Luther King Jr. Day	Categorical Variables, Contingency Tables, and Independence	Homework 3a
Week 4 January 26 - February 1	Sampling Distributions of a Mean	Sampling Distributions of a Proportion	Homework 3b Module 3 Quiz
Week 5 February 2 - February 8	Confidence Intervals, ME, SE	Bootstrap Confidence Intervals, Midterm Review	Homework 4a Homework 4b Module 4 Quiz Bonus Midterm Review (Due 3/15)
Week 6 February 9 - February 15	Midterm Exam	Hypothesis Tests with 1 Mean and 1 Proportion	Homework 6a
Week 7 February 16 - February 22	Hypothesis Tests with 2 Means and 2 Proportions	Additional Practice with Hypothesis Testing	Homework 6b Module 6 Quiz Homework 7a
Week 8 February 23 - March 1	The Normal Model	Central Limit Theorem	Homework 7b Module 7 Quiz Homework 8a

Week 9 March 2 - March 8	Confidence Intervals using the Normal Distribution	Hypothesis Tests using the Normal Distribution	Homework 8b Module 8 Quiz Homework 9a
Week 10 March 9 - March 15	Scatterplots, Residuals, and Correlation	Final Review and Wrap-Up	Homework 9b Module 9 Quiz Bonus Final Review (Due 3/15)
Finals Week March 16 - March 22	Final Exam March 16 9:00 AM		