

Portland Community College – Southeast
2305 SE 82nd Ave,
Portland, OR 97216

Math 243: Statistics I
Winter Term 2020 (13145 – 5 Credits)
Meets T/Th 9 am – 11:20 am in SCOM 200

Instructor: **Kaiwen Amrein (Cathy)**
Office: **SCOM 214**
Phone/Voice Mail: **971-722-3160**
Email: **cathy.amrein@pcc.edu**

Office Hours (Library):
Monday **10 am – 2 pm**
Thursday **11:30 am – 1:30 pm**

Required Material:

- **Free online textbook:** Advanced High School Statistics by *Diez*, 2nd edition, available at <http://spot.pcc.edu/math/ahss> (Written for Advanced Placement Statistics) *You can read the book online or buy an inexpensive print copy in the bookstore.*
- **Free online homework system:** MyOpenMath, <https://www.myopenmath.com>
Course ID: 60971 Enrollment key: 13145
- **Calculator:** Any scientific calculator with a $\sqrt{\quad}$ button.
- **Free GeoGebra download** (Version 5 download is recommended): <https://www.geogebra.org/download>
- **Free Microsoft Office for students:** <https://products.office.com/en-US/student/office-in-education>

Course Description and Outcomes:

Introduces displaying data with graphs, numerical descriptions of data, producing data, elementary probability, probability distributions, confidence intervals and significance testing. Investigates applications from science, business, and social science perspectives.

Link to Description, Outcomes and Course Content:

<https://www.pcc.edu/ccog/default.cfm?fa=ccog&subject=MTH&course=243>

Prerequisites: MTH 95 or MTH 98 and placement into WR 121.

Classroom Expectations As per traditional college classroom etiquette and expectations of college student behavior, the following shall apply:

- Treat all others with respect (i.e, treat others as you wish them to treat you).
- Arrive on time, return from break on time, and stay in class until class is over.
- You should have read and completed the assignments prior to coming to class. Do not work on assignments during class.
- No private discussions during class time (save those for before or after class, or during the break).
- Food is allowed in class, but please be courteous to your fellow students and avoid very smelly or loud foods, especially during an exam.
- **Cell phones shall be turned off and put away BEFORE entering the classroom.**

Grading:	MOM Homework	10%			
	In-class Activities	7%			
	Class Presentation	3%			
	Quizzes	15%			
	Graded Problem Sets	10%			
	Tests (2 @ 15% each)	30%			
	<u>Final</u>	<u>25%</u>			
	Total	100%			
	A (90-100%)	B (80-89%)	C (70-79%)	D (60-69%)	F (0-59%)

MOM Homework: *MyOpenMath* homework assignments for each section are due one week from the day the content is covered. Do your best to complete the homework problems for each section covered in class before the next time class meets. The next day's material will often build upon the last. Write the steps down in your notebook or print a copy of the homework problems and write your work on that paper. Then you can use your work to study for the quizzes and tests.

In-class Activities: It is essential for you to actively participate in class. There will be a variety of activities, including individual and group work, during class sessions. There is no make up for in-class activities, since they occur in each class. To compensate for sudden, unavoidable absences, the lowest quiz score will be dropped at the end of the term.

Class Presentation: Throughout the term, we will have individual presentations on applications of statistical topics in real life. There will be 1-2 presenters at the beginning of each class meeting. If you are more than 10 minutes late for the class, you will have to reschedule your presentation to a later date. Extra credit will be given if you present more than once during the term.

Quizzes: There will be a quiz about every other week. Each quiz will contain questions on the sections from the previous weeks. Make-up and/or late quizzes will NOT be given. To compensate for sudden, unavoidable absences, the lowest quiz score will be dropped at the end of the term.

Tests: There will be two tests and a cumulative final during the term. Make-up tests will not be given except in the case of extraordinary events. If you need to take a make-up exam, please let me know as soon as possible and schedule an appointment with the testing center.

Grading Options: If you would like to audit the course, please discuss it with me and then before noon on Friday of the 1st week, send me an email (from your PCC account) in which you officially request the audit. If you would like to be assigned a pass/no pass grade for the class, you should make that change to your course registration through MyPCC or at the registration office by Friday of the 8th week of classes. Information regarding the college's grading policies and guidelines may be found in the college catalog or at the following website:

<http://www.pcc.edu/registration/grading-policy/>

Recording of Class Sessions: Students who wish to make an auditory or visual recording of any portion of the class must speak with the instructor ahead of time. Any such recording is for personal use only. It may not be shared, copied, uploaded to the Internet, and/or distributed without written permission from the instructor as well as any student who appears or is heard in the recording.

Plagiarism and Cheating: Plagiarism and cheating will not be tolerated in this class. You may work with other students on homework. In fact, I recommend you form a study group as soon as possible. However, the homework you turn in must be your own. It should be in your own words. Do not simply copy the work and answers of a fellow student or out of a book. Not only is this going to hinder you in learning the material, but it is also cheating. If I find that you have cheated on a quiz or exam, you will receive a zero as a grade for that assessment. PCC's academic integrity policy is accessible through this website on student rights and responsibilities:

<http://www.pcc.edu/about/policy/student-rights/>.

Email is the most common way that students contact me. Please make sure you use your PCC email if you do so. I will send any email communications to the class through your PCC email accounts and respond to PCC email addresses.

Please check your PCC email regularly (at least once between each class meeting).

Winter 2020 Tentative Schedule

The following schedule lists lesson plans for each class meeting as well as the assignments due.

Lessons for the day are in **bold black print**.

WEEK	TUESDAY	THURSDAY
Week 1	1/7 Lesson: 1.1-1.2, Course Intro <i>Set up MOM</i> <i>Assignment 1 handout</i>	1/9 Lesson: 1.3-1.5
Week 2	1/14 Lesson: 2.1.2- 2.2.5 <i>Due: MOM 1.1-1.2</i>	1/16 Lesson: 2.2.2, 2.2.7 <i>Due: Assignment 1</i> <i>Due: MOM 1.3-1.5</i>
Week 3	1/21 Lesson: 3.1 <i>Assessment: Quiz 1</i> <i>Review 1 handout</i> <i>Due: MOM 2.1.2-2.2.5</i>	1/23 Lesson: 3.2 <i>Due: MOM 2.2.2, 2.2.7</i>
Week 4	1/28 Assessment: Test 1 <i>Due: MOM 3.1</i>	1/30 Lesson: 3.5 <i>Assignment 2 handout</i> <i>Due: MOM 3.2</i>
Week 5	2/4 Lesson: 4.4 <i>Assessment: Quiz 2</i>	2/6 Lesson: 4.1 <i>Due: MOM 3.5</i>
Week 6	2/11 Lesson: 4.2 <i>Due: Assignment 2</i> <i>Due: MOM 4.4</i> <i>Review 2 handout</i>	2/13 Lesson: 4.5 <i>Assessment: Quiz #3</i> <i>Due: MOM 4.1</i>
Week 7	2/18 Assessment: Test 2 <i>Assignment 3 handout</i> <i>Due: MOM 4.2</i>	2/20 Lesson: 5.1, 5.2, 6.1 <i>Due: MOM 4.5</i>
Week 8	2/25 Lesson: 5.3, 5.4, 6.1 <i>Due: Assignment 3</i>	2/27 Lesson: 1.2.3, 2.1.1 <i>Due: MOM 5.1, 5.2</i>
Week 9	3/3 Lesson: 8.1-8.2.6 Part 1 <i>Assessment: Quiz 4</i> <i>Due: MOM 5.3, 5.4, 6.1</i>	3/5 Lesson: 8.1-8.2.6 Part 2 <i>Assignment 4 handout</i>

Week 10	3/10 Review Day Due: MOM 8.1-8.2.6 Part 1	3/12 Review Day Due: Assignment 4 Due: MOM 8.1-8.2.6 Part 2
Final	March 17th, Tuesday, 9-10:50 am	

Please note that the preceding syllabus, schedule, and assignments are not carved in stone. Changes may occur if, for example, sickness, bad weather, or class pace becomes an issue. If any changes to the information in this syllabus take place, you will be informed in class and/or through PCC email.

GENERAL PCC INFORMATION AND RESOURCES

Portland Community College www.pcc.edu

Mail: P.O. Box 19000, Portland, OR 97280-0990 **PCC Math Department Website:** spot.pcc.edu/math
SE Math Department **Address:** 2305 SE 82nd Ave, Portland, OR 97216 **Building:** SCOM 214
Phone: 971-722-4149 or 4172 **Fax:** 971-722-8259

SANCTUARY COLLEGE	PCC is a sanctuary college. For more information and resources, see www.pcc.edu/resources/undocumented-students/ .
ADA ACCOMODATION	Students who experience disability-related barriers should contact Disability Services (SCOM 112): www.pcc.edu/disability If students elect to use approved academic adjustments, they must provide, in advance, formal notification from Disability Services to the instructor.
EMAIL NOTICE	Due to Federal laws and concerns about privacy, all email communication between instructor and student shall be done via PCC assigned email address . Access email via MyPCC—see instructor during office hours if unfamiliar with using MyPCC.
EQUITY & INCLUSION NONDISCRIMINATION NONHARRASMENT (TITLE IX)	Portland Community College is committed to creating and fostering a learning and working environment based on open communication and mutual respect. This is an integral part of the College's academic mission to enrich our students' educational experiences and prepare them to live in and contribute to a global society. If you believe you have encountered sexual harassment, sexual misconduct, sexual assault, or discrimination based on race, color, religion, age, national origin, veteran status, sex, sexual orientation, gender identity, or disability please contact the Office of Equity and Inclusion at (971) 722-5840 or equity.inclusion@pcc.edu . www.pcc.edu/about/equity-inclusion/eo-statement.html www.pcc.edu/about/equity-inclusion/nonharassment/
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.
GRADING AND REGISTRATION POLICIES AND DEADLINES	Adding and Dropping: www.pcc.edu/enroll/registration/dropping.html Grading Options: www.pcc.edu/registration/grading-policy/ Grading Guidelines: www.pcc.edu/resources/student-records/grading/

<p>STUDENT RIGHTS AND RESPONSIBILITIES HANDBOOK</p>	<p>Students are required to comply with the Student Rights and Responsibilities Handbook. Included are policies on Students Rights, Student Conduct, Grade Appeal, Academic Integrity, Consensual Relationship Statement, and Children on PCC properties.</p> <p>www.pcc.edu/about/policy/student-rights/ www.pcc.edu/about/policy/student-rights/documents/student-conduct.pdf www.pcc.edu/about/policy/student-rights/documents/grade-appeal.pdf www.pcc.edu/resources/academic/standards-practices/academic-integrity.html www.pcc.edu/about/policy/student-rights/documents/relationships.pdf www.pcc.edu/about/policy/student-rights/documents/children.pdf</p>
<p>RESOURCES AND SERVICES</p> <p>for more: www.pcc.edu/resources/ - student</p>	<ul style="list-style-type: none"> • Calculator Handbooks Revised handbooks for TI-89, TI-Voyage 200, and the Casio ClassPad 330 are available on the PCC Math Department page under “Course Downloads” at: spot.pcc.edu/math/download.htm • College Success Courses There are several one credit courses available to help you maximize your success in the college experience. These include courses specifically geared to study skills. The following site offers information on these courses as well as tips for success: www.pcc.edu/resources/panther-tracks/college-success/study-skills.html • Counseling Services (SCOM 116, 971-722-6240) Get help dealing with personal or career concerns that may be impacting your academic success. Trained professional counselors can also assist you with decision-making, goal-setting, and personal development. http://www.pcc.edu/resources/counseling/ • Multicultural Center (Tabor 150) A welcoming and inclusive space for diverse students. One of the many services is one-on-one help for math courses, drop-in or by appointment: http://www.pcc.edu/resources/culture/ • Student Computing Center (Library) <ul style="list-style-type: none"> ○ internet access, mathematics computer programs, and more (orientation required) http://www.pcc.edu/resources/computer-labs/ ○ allocation of 100 double-sided pages of free printing per term (does not roll over to next term) http://www.pcc.edu/resources/printing/ • Student Learning Center (Library) An informal, open study area, with the added benefit of free tutoring assistance. The Math Center resides here. For more information: http://www.pcc.edu/resources/tutoring/sylvania/student-success/math-center • Women’s Resource Center (Tabor 149) A wide variety of services that support the academic achievement of women: http://www.pcc.edu/resources/women/sylvania