

**DEPARTMENT OF MATHEMATICS
COLLEGE OF THE SCIENCES
CENTRAL WASHINGTON UNIVERSITY**

MATH 405 | FALL 2019

COURSE: MATH 405 – Probability and Statistics for Teachers

CRN: 93123

Day: MTWTH

Section: 001

Time: 12:00 – 12:50

Room: Samuelson 108

Materials:

- **Textbook-** *Data and Probability Connections: Mathematics for Middle School Teachers*, by Perkowski and Perkowski. ISBN-13: 978-0131449220
- **Graphing Calculator** – a graphing calculator is required for this course. The TI-84 graphing calculator is strongly recommended, and will be the calculator used in classroom demonstrations.

Instructor Information:

Instructor: Dr. Janet Shiver

Phone: 509-963-2109

Email: janet.shiver@cwu.edu

Office Location: SAM 208

Office Hours: 8:00 – 9:00 MTWTH

Expectations:

Being successful in a mathematics class generally requires good study habits, hard work/patience while attempting problem sets, and proper time management during testing situations. Each student is expected to attend every class meeting, to read the assigned sections of the text prior to class, to complete homework problems and other assignments in a timely manner, and to seek the assistance of the instructor or a tutor when difficulties are encountered.

Because attendance is of vital importance to your success in this course, you are expected to attend class regularly and to be on time. Students who arrive late should enter the class quietly and sit in the first available desk. Students are responsible for signing the attendance roster at each class meeting even if you are late. Students who miss 4 consecutive classes or more than 5 classes may be withdrawn from the course and assigned a grade of F for excessive absences. NOTE: Extenuating circumstances will be evaluated on a case-by-case basis.

Objectives:

After successful completion of this course, students will:

- Calculate and interpret basic descriptive statistics;

- Calculate probabilities for simple events from a variety of random experiments;
- Describe and use properties of basic probability distributions;
- Understand and be able to perform statistical inference in the form of confidence intervals and hypothesis tests;
- Review with a more critical eye public information that informs decisions in our world

Grading: For final weighted averages falling in the following intervals, a student will earn at least the corresponding letter grade:

[90 - 92] A-	[93 - 100] A	
[80 - 82] B -	[83 - 86] B	[87 - 89] B+
[70 - 72] C -	[73 - 76] C	[77 - 79] C+
[60 - 62] D -	[63 - 66] D	[67 - 69] D+
Below 60 F		

Grades will be determined as follows:

- 15% Written assignments including, but not limited to, projects, reflective writing, homework, mathematical tasks, etc.
- 15% Quizzes
- 45% 3 written exams
- 5% Attendance (0-1 absence 100%, 2 - 90%, 3 - 80%, etc.)
- 20% Cumulative final exam

Missed Coursework/Late Assignments:

You are expected to attend each class period and to be on time. Any missed class activity due to an absence or tardy will be recorded with a grade of zero. **Missed class work may not be made up.**

Late assignments will be accepted up to 24 hours after the due date and time. They will not be accepted after 24 hours and the grade of zero will be recorded. All assignments are due at the beginning of the assigned class period. Any assignment turned in after this time and within the 24 hour limit will have 10 points deducted from the grade received.

A missed test or quiz may not be made up without just cause. If you have a conflict (e.g. a CWU athletic event, court date, doctor's appointment, etc.) or severe illness that requires you to miss a test, contact the instructor immediately to make other testing arrangements. Arrangements should be made as soon as you know there is a conflict or, in the case of illness, by the scheduled test date. **Documentation must be provided in order to make alternate arrangements.**

Academic Honesty:

The integrity of students and their oral and written work is a critical component of the academic process. All written work submitted in this course will be individual work unless otherwise directed by the instructor. Students must properly document all outside sources used for class assignments. The submission of another's work as one's own is plagiarism, and will be dealt with using the procedures outlined in the CWU Catalog. Consult university policies (CWUP 5-90-040(22), CWUR 2-90-040(22), and WAC I06-125-020) for student conduct, cheating, plagiarism, and other academic expectations.

Safety:

Fire drills may be conducted during the quarter. In the event of a fire alarm, you will exit the building in a quick and orderly manner through the nearest hallway exit. Learn the floor plan and exits of this building. Do not use elevators. Crawl on the floor if you encounter heavy smoke. Assist disabled persons and others if possible without endangering your own life. Assemble for a head count in front of Samuelson, near the entrance to Boullion Hall.

Electronic Devices Policy:

It is common courtesy to turn all electronic devices to "off" or "silent" mode when entering the library, classrooms and auditoriums on CWUs campus. Please adhere to this policy. All cell phones should be kept out of site during the class. Please be sure they are placed in a pocket, purse, or backpack so they will not present a temptation during class time.

Request for Disability Modifications:

Students with disabilities who wish to set up academic adjustments in this class should give me a copy of their "Confirmation of Eligibility for Academic Adjustments" from the Center for Disability Services as soon as possible so we can discuss how the approved adjustments will be implemented in class. Students without this form should contact the Center for Disability Services, Hogue 126 or ds@cwu.edu or 509-963-2214.

Expectations for Student Conduct:

Students in this class are expected to interact with students and the professor professionally. Instances of disruptive conduct, obstructive conduct, or harassment will be referred to the Dean of Student Success.

Course Outline: Modification of this schedule will be made at the discretion of the instructor. Announcements made in class or on the class web page will supersede this schedule.

Week of	Class Outline	Notes:
September 23	Syllabus, Chapter 1	
September 30	Chapter 1 and Chapter 2	Quiz 1 Extra Friday class
October 7	Chapter 3	
October 14	Chapter 3	Test Chapters 1, 2 ,3 Extra Friday class
October 21	Chapter 4	
October 28	Chapter 4	Quiz 2
November 4	Chapter 5	
November 11	Chapter 5	No class Nov. 11 Test Chapter 4 and 5

November 18	Chapter 6	
November 25		Thanksgiving Nov 27-29 No Class Nov. 25 and 26
December 2	Chapter 7	
December 13	FINAL EXAM	2:00 – 4:00 Alternative: December 9 th 10:00 -12:00