

Instructor: Dr. Chris Black
Office: HEC #268, Des Moines Center (off campus Spring 2022)
Office Hours: TBD based on student availability
Email : blackc@cwu.edu

Required Text: *Finite Mathematics: Introductory Probability and Statistics*, Owen and Cutlip, Hayden McNeil. We will be covering Chapters 6, 7, 8 and 9 of the text. The text is available electronically through Canvas via Inclusive Access.

Required Materials: Access to WebWork for homework, via webwork.math.cwu.edu.
Access to Desmos for homework and test review, via student.desmos.com.
Access to online calculators and simulators.

COURSE DESCRIPTION:

This course includes the language of sets, counting procedures, introductory probability, decision making, and introductory descriptive statistics. MATH 130 meets the General Education Quantitative Reasoning requirement and prepares students for introductory statistics courses in various departments.

COURSE GOALS: The basic goals of Math 130 include:

- ▷ applying the fundamental counting principal to various sets
 - ▷ calculating and interpreting basic probabilities of events
 - ▷ calculating and interpreting measures of center and dispersion
 - ▷ recognizing and interpreting a binomial distribution and applying it to real world problems.
 - ▷ recognizing and interpreting a normal distribution and applying it to real world problems.
 - ▷ using, interpreting, and creating a variety of graphical representations to model real-world data.
 - ▷ using, interpreting, and creating a variety of numerical summaries to model real world data.
 - ▷ applying the Central Limit Theorem to describe sampling distributions.
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COURSE EXPECTATIONS:

As as student in this online course, you can expect:

- Collected assignments to be graded and returned at a reasonable pace. Homework done through WebWork will provide instant feedback.
- Response to email within 24 hours (or less!) Monday to Friday. I will also respond to email on weekends, although less frequently.
- Constant accessibility during online office hours, and individual appointments made as necessary.

As a student in this online course, you will be expected to:

- Devote enough time to the course to succeed. Remember this is a 5-credit course and requires about 2 hours of effort each day.
- Be proactive in seeking help when needed.
- Complete all assignments on time and to the best of your ability, whether or not they are collected or assessed by the instructor.
- Notify the instructor immediately of any circumstances impeding your success.
- Adhere to Central Washington University's Student Judicial Code.

PROBABLE COURSE TOPICS:

- ▷ Counting methods
- ▷ Introductory probability
- ▷ Random variables and probability distributions
- ▷ Introductory statistics

COURSE STRUCTURE:

As an online course, the content will be delivered through Canvas. Your regular tasks will include the following:

- Read the appropriate section(s) of material from the text.
- Watch the recorded lesson. Pause the recording to work through examples where indicated and check your understanding.
- After the lesson, work through the worksheet on your own or with a study group.
- Assess your work on the worksheet by comparing your work to the solution.
- Work through the practice problems in the text.
- Complete the assigned homework on WebWork and Desmos (when applicable).
- Attend problem sessions (day & time TBD) for additional help.
- If you need help with any of the homework problems, email me. I will either handle the questions individually, or I will post a solution on Canvas, depending on how many students are having similar issues. Remember that I am here as a force for good.

PARTICIPATION:

Each section of material has a worksheet to accompany or follow lecture. You are expected to work through this worksheet as part of the course. You can work alone, or with a partner or small group; I will help facilitate the organization of study groups for this purpose. Enter your answers for each worksheet into the associated practice quiz on Canvas for participation credit. Participation is worth 10% of the course grade.

HOMEWORK:

Daily homework is an integral part of this course. There are two types of homework in the course:

- Problems in the text. Answers to these problems are provided in the back of the book, so these problems will not be collected or graded. Use the textbook problems to prepare yourself for the graded assignments and tests.
- Problems on WebWork. Homework will be administered and graded on WebWork, found online at webwork.math.cwu.edu. It is strongly encouraged that you do the textbook problems before you tackle the problems on WebWork. There are at least two days on the schedule devoted to each section of material, so there is time to watch the lesson, do the worksheet, do some practice problems and seek help if needed before you work through the graded problems on WebWork.
- Problems on Desmos: Additional practice and review activities will be available through Desmos. Some of these assignments count toward the homework score.

You are responsible for keeping up with the assigned homework in the text and on WebWork, and for seeking help when needed. Each section of material has its own homework assignment, and homework assignments are due by 11:59 pm on the day listed on the schedule. Consult the course schedule and calendar for the due dates for each section's assignment. Graded homework assignments count for 30% of the course grade.

CHAPTER TESTS:

There are four chapter tests to be administered through Canvas that assess the concepts in an entire chapter of material. Each 90-minute test will be taken on the day specified on the course schedule: Monday 4/18, Monday 5/2, Monday 5/23, and Tuesday 6/7 (during finals week). You have from 12:01 am to 11:59 pm on the day of a test to find a 90-minute window to take it. The tests count for 60% of the course grade.

FINALS WEEK:

The final exam is optional and can replace the lowest test score in the course. As the registrar does not set a time for final exams for online courses, the cumulative 2-hour final exam is scheduled for Thursday of finals week. Note that the Chapter 9 test will be held on Tuesday of finals week. If these tests overburden you on either day, please contact me to make arrangements to reschedule.

GRADING:

Homework (WebWork & Desmos):	30%
Tests (Canvas):	60%
Participation (Worksheets)	10%

CONTINUING ADAPTATIONS FOR ACADEMIC YEAR 2021-22 (READ ME!!):

Due to the COVID-19 pandemic, the following policies are in effect:

- To the extent that it is possible, please stay in touch with me if COVID-19 affects your ability to do the work in this course.
- There is no late penalty for any WebWork assignment. There is a due date on the schedule and on WebWork, but any work can be completed for full credit until the day of the final exam.
- Any test can be rescheduled as needed – just ask! When possible, ask before the day of the scheduled event, but due to the extraordinary circumstances we’re living under right now, all requests will be honored. You are welcome to request to take a test either earlier or later than is listed on the course schedule – just let me know so I can make the necessary arrangements.

Remember to be kind to yourself and try to keep ahead of due dates, but that we can make arrangements as needed.

MENTAL AND EMOTIONAL HEALTH AND SUPPORT:

Stress and other life circumstances that may be out of your control can make learning and focusing difficult. If you find stress or other mental health concerns make academics difficult, Central has resources to support you. I encourage you to reach out as soon as you notice you’re struggling.

- Student Counseling Services: Crisis appointments are available. Call 509-963-1391
www.cwu.edu/medical-counseling/counseling-clinic
- Mental health crisis support outside of normal business hours: Call 1-800-273-8255 or Text HOME to 741741
- Wellness Center: Confidential sexual assault and other victim advocacy. Call 509-963-3213 or visit www.cwu.edu/wecare, www.cwu.edu/path

ACADEMIC HONESTY:

Consult university policies (CWUP 5-90-040(22), CWUR 2-90-040(22), and WAC 106-125-020) for student conduct, cheating, plagiarism, and other academic expectations. CWU’s policies and recommendations for academic misconduct will be followed, leading to disciplinary action up to and including failing the course. See <https://apps.leg.wa.gov/WAC/default.aspx?cite=106-125> and <https://www.cwu.edu/resources-reports/cwur-2-90-040-academic-and-general-regulations#Grade%20Appeals>

DISABILITY SERVICES:

Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations: Hogue Hall 126, 509.963.2214, DS@cwu.edu.

ACCOMMODATION FOR RELIGIOUS OBSERVANCES:

In compliance with RCW 28B.137.010, Central Washington University makes every effort to deal reasonably and fairly with students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Students must present written notice to their instructor within the first two weeks of class listing the specific dates on which accommodations are required. Contact the Dean of Student Success at (509) 963-1515 for further information.

STATEMENT ON DIVERSITY:

CWU expects every member of the university community to contribute to an inclusive and respectful culture for all in its classrooms, work environments, and at campus events. As a student in this course, you are expected to treat your professors, fellow students, and other people affiliated with your work at CWU with respect, regardless of their sex, race and color, religion and creed, national origin, sexual orientation, gender identity and gender expression, disability and use of assistive devices or a service animal, and veteran or military status.

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 (see definitions below from the Washington Administrative Code) will be referred to the Dean of Student Success.

Per WAC 106-125-020, the term “disruptive” or “obstructive” conduct means conduct, not protected by law, that interferes with, impedes, or otherwise unreasonably hinders the normal teaching, learning, research, administrative, or other functions, procedures, services, programs, or activities of the university. The term includes disorderly conduct, breach of the peace, violation of local or university noise policies, lewd or obscene conduct, obstruction of pedestrian or vehicular traffic, tampering with student election processes, or interfering with the orderly conduct of university investigations or disciplinary proceedings, including interfering with or retaliating against any witness, party, or other participant.

The term “harassment” means unwelcome and offensive conduct, including verbal, nonverbal, or physical conduct, that is directed at a person because of such person’s protected status and that is sufficiently serious as to deny or limit the ability of a student to participate in or benefit from the university’s educational program, or that creates an intimidating, hostile, or offensive environment for any campus community member(s). Protected status includes a person’s actual or perceived race, color, national origin, gender, disability, or other status protected by law.