

MATH IN THE MODERN WORLD

Math 101-A03, Winter 2021

Instructor: Tyler Suronen

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Text: *Using and Understanding Mathematics: A Quantitative Reasoning Approach*, Bennett Briggs, 6th Edition.

Description: A course about problem solving and applications of numbers. Chapters 2 and 3 will focus on general number sense and problem solving which apply to a variety of topics. Chapter 4 will take us through financial mathematics. Chapter 12 shows us how numbers enter politics with voting, apportionment, and redistricting.

Required Materials:

- The Text: For reading chapters 2, 3, 4, and 12. I reference primarily the 6th edition. A 5th edition copy is near enough to use. It differs slightly in the organization of units and examples differ.
- A scientific calculator. Online calculators and cellphone calculators generally suffice, but having a separate dedicated device is nice.
- Internet access for: video lectures, office hours, and all assignments.

Grades:

- HW 20%
- Check-ins 5%
- Quizzes 15%
- Exams 40%
- Final Exam 20%

Your overall grade will be calculated by percentage of completed work with the following cutoffs (+/- fall within the upper/lower 3 percent points of each range i.e B+ 87-90).

$$90 \leq A$$

$$80 \leq B < 90$$

$$70 \leq C < 80$$

$$60 \leq D < 70$$

$$F < 60$$

Homework: Homework will be assigned frequently. You will find assignments on Canvas organized in the modules after the corresponding unit videos. Each assignment covers a unit of material. Homework is worth 20% of your total grade.

Check-in: For graded participation I want to hear from you once each week. However you prefer, email, discussion, office hours, you get in touch letting me know how you're doing in the course. If you have any questions about the course or its content please send them. If everything is going well you can send something to the effect "All good. No Questions." In total this is 5% of your grade (each week worth 0.5% of your overall grade).

Quizzes: Quizzes are assigned throughout the week. You will have a limited number of attempts and you must complete them by the due date. They will cover a unit or topic from that week. Quizzes are worth 15% of your grade.

Exams: We will have 4 midterm exams. Roughly every two weeks and covering one chapter of material. These are completed through canvas just as the homework. They are timed and must be completed on the day they are assigned and due. Exams are worth 40% of your grade.

Final Exam: The final will be two hours long, the material will be comprehensive, and is worth 20% of your grade.

Late work and Excused Absences: Makeups for all assignments will be given on a case by case basis when circumstances are both valid and verifiable, e.g. illness, bereavement, and school-related activities. Documentation may be required. It is expected that exceptions to due dates be requested prior to the due date.

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 or questions.

Academic Dishonesty: 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. Disciplinary action will be taken, up to and including failure of the course, in accordance with CWU policy and recommendations.

Classroom Equity: It is my duty as your instructor to provide a safe and inclusive environment for learning. As students you are expected to share this commitment. Our shared responsibility is to welcome everyone to learn and to treat each other with dignity and respect. Mutual respect and nondiscrimination includes freedom from sexual harassment. CWU policy defines sexual harassment as unwelcome, sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature under particular conditions. Title IX considers sexual harassment to be a form of discrimination. If you experience sexual harassment, or know someone who is being sexually harassed, you are encouraged to report concerns to me, another faculty member or employee, or to Equal Opportunity, at 509-963-1202, OfficeforEqualOpportunity@cwu.edu, Mitchell Hall 1st floor. Complete policies are available online at www.cwu.edu/hr.

Accessibility and Accommodations: Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning, discuss your concerns with the instructor.

Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509)963-2214 or email Disability Services, ds@cwu.edu, for more information.

Resources for Online Students: CWU offers a variety of services and guidelines for current and future online students. For more information visit. www.cwu.edu/online-learning/resources-current-and-future-students

Important Dates:

January 5 First day of classes.

January 11 Add/Drop classes.

January 18 Martin Luther King Jr. Holiday. No classes.

February 15 Presidents Day. No classes.

February 18 Uncontested withdrawal period deadline.

March 12 Last day of class instruction.

March 15 Study Day.

Mar 18 Final Exam

March 19 End of Quarter

Other: Math requires lots of practice. When taking in-person courses we recommend you spend 1-2 hours outside of class for every hour in class. In the online, asynchronous environment I recommend you schedule the time you need aiming to meet the same time investment on a weekly basis. For each new section please: read the section in the book, watch the corresponding videos, and attempt the assignments.

Resources:

1. **YOUR INSTRUCTOR:** I'm available for additional help several days a week during my office hours. During office hours I can help you review material, work on practice problems, answer questions related to homework, etc. If you have questions, you don't need to wait for my office hours to ask: you're welcome to e-mail me.

2. **YOUR TEXT:** The majority of the material in this class is based on the text. Along with reading the text, I encourage you to attempt many practice problems and use the selected answers provided as another learning tool.

3. **YOUR FELLOW STUDENTS:** Math is a collaborative effort. Form study groups, work through homework, share notes, etc. Borrow understanding from others and share your understanding with them.

4. **LEARNING COMMONS:** Free online tutoring is available. See cwu.edu/learning-commons for more information.