

# FINITE MATHEMATICS

## Math 130-A01, Winter 2021

**Instructor:** Tyler Suronen

**Office:** Samuelson 228I

**Office Hours:** M-F 1-1:50 PM

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**Text:** *Finite Mathematics: Introductory Probability and Statistics*, by William B. Owen and Wm. Frederick Cutlip

**Course Description:** Finite Mathematics is an introductory course in probability and statistics with some basic combinatorics.

**Course Objectives:** By the end of this course you will be prepared to:

- Discuss experiments in terms of sample space, outcomes, and events.
- Use rules of probability to determine the likelihood of events.
- Determine whether events are independent.
- Describe probabilities and other parameters of probability functions.
- Describe data using statistical measures.
- Give a confidence interval for the value of the mean.

**Required Materials:** The text, a graphing calculator, and internet access for Canvas and WeBWork. TI-83 or TI-84 are recommended and will be what I use in lectures. Other graphing calculator may be used, but instructions are provided with these calculators in mind.

[webwork.math.cwu.edu/webwork2/Math130Suronen/](http://webwork.math.cwu.edu/webwork2/Math130Suronen/)

**Grades:**

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

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

$$\begin{aligned}90 &\leq A \\80 &\leq B < 90 \\70 &\leq C < 80 \\60 &\leq D < 70 \\F &< 60\end{aligned}$$

**Homework:** Homework assignments are given on a weekly basis and are due at the end of each week. The homework will reflect the material covered most recently. These are assigned and completed through WeBWork. Homework is worth 20% of your total grade.

**Check-ins:** Once every week I want to hear from you. Through whichever channel you best prefer, email, canvas discussion, or office hours, you send me a message letting me know how you're doing in this course. If you have any questions about the course or its content please send them. If everything is going fine you can send "All good. No questions." In total this is 5% of your grade (each week worth 0.5% of your overall grade).

**Perfect Practice:** These are short tasks which are assigned throughout the week to test your understanding of a single concept. Perfect practice is 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 in WeBWork. 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 offered on Tuesday March 16th. The final will be timed for two hours. The material will be comprehensive. The final exam is worth 20% of your grade.

**Late work and Make-ups:** 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](mailto:OfficeforEqualOpportunity@cwu.edu), Mitchell Hall 1st floor. Complete policies are available online at [www.cwu.edu/hr](http://www.cwu.edu/hr).

This extends to the online components of the course in virtual office hours, discussions, canvas chat/discussions, and email correspondence. It is each of our duty to engage with the course and each other in a respectful manner.

**Accessibility and Accomodations:** 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](mailto: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](http://www.cwu.edu/online-learning/resources-current-and-future-students)

Multimodal Learning recognize and embrace that online learning requires different strategies for students. For more information visit: [www.cwu.edu/online-learning/online-learning-basics-students](http://www.cwu.edu/online-learning/online-learning-basics-students)

### **Important Dates:**

Jan 5 First day of classes.

Jan 11 Add/Drop classes.

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

Feb 15 Presidents Day. No classes.

Feb 18 Uncontested withdrawal period deadline.

Mar 12 Last day of class instruction.

Mar 15 Study Day.

Mar 16 Final Exam

Mar 19 End of Quarter

**Other:** Math requires lots of practice. When taking in-person courses we recommend you spend a 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 5 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 that cannot wait, you don't need to wait for my office hours to ask: you're welcome to e-mail me and join our weekly online discussions.

2. YOUR TEXT: The majority of the material in this class is based on the text. I recommend you keep up with the material in the book as we cover it in class. The text also has practice problems and will make a decent study guide.

3. FELLOW STUDENTS: Form study groups, work through homework, share notes, etc. Borrow understanding from others and share your understanding with them.

4. LEARNING COMMONS: Tutoring and additional resources. For more information visit:

[www.cwu.edu/learning-commons/university-math-center](http://www.cwu.edu/learning-commons/university-math-center)

and

[www.cwu.edu/learning-commons/math-130](http://www.cwu.edu/learning-commons/math-130)