

FINITE MATHEMATICS

Math 130-004, Winter 2017
M-F 10-10:50 AM, Bouillon 102

Instructor: Tyler Suronen

Office: Black 225-40

Office Hours: M-F 9-9:50 AM

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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 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 I am not familiar with other makes or models and will not be as equipped to help.

webwork.math.cwu.edu/webwork2/Math130Suronen/

Attendance: Daily attendance is not mandatory, but is highly recommended for your success in this course. Please bring your text and calculator to every lecture. If you are absent, you are responsible for obtaining any information or materials presented in lecture. You are welcome to e-mail me to ask what material we cover if you have been absent.

Grade percent breakdown:

- HW 15%
- Quizzes 25%
- Exams 40%
- Final Exam 20%

Grades: You must show all work. Answers without adequate justification will not receive full credit. Any kind of guess-and-check solution or remembering an answer will not suffice. Occasionally, answers without work or explanation will be acceptable (e.g. reading values from a graph). I will attempt to make clear the amount of detail necessary with examples in

lectures. Problems will be done by hand unless explicitly stated otherwise. Answers should be presented in exact form unless explicitly stated otherwise.

Your overall grade will be calculated by percentage of completed work with the following cutoffs.

$$90 \leq A$$

$$80 \leq B < 90$$

$$70 \leq C < 80$$

$$60 \leq D < 70$$

$$F < 60$$

Homework: Homework will be assigned frequently in class. Homework is worth 10% of your total grade. The homework will reflect the material covered recently in class. It is expected that you keep up with the homework. You are expected to attempt all problems. Homework will typically be discussed in class on the day it is due. Most homework will be on WeBWork, but there may be additional assignments announced.

Quizzes: We will have a quiz during any week that we do not have an exam (including the final week of instruction). Quizzes will typically be given at the end of the week and regard the most recent material covered in class. You must be present to take the quiz during the time it is given. In the event of planned or unplanned absence each student will be allowed one quiz retake regardless of circumstance. The retake must be completed at the earliest possible date before the next quiz or exam. In the event of any additional planned absences you may speak to me in advance to reschedule the quiz. Again: *for planned absences you must discuss in advance and only one exception for unplanned absences*. All quizzes combined are worth 20% of your grade.

Exams: We will have 3 exams during the quarter and a final exam at the end of the quarter. The 3 exams will each cover roughly 2 weeks of the most recent material. Exams will take 55 minutes. Exams must be taken in class on the date given unless arranged in advance for necessary absence (see Late Work and Make-ups). The three exams together are worth 40% of your grade.

Final Exam: The final will be held on Friday March 17th 8-10:00 AM in our regular classroom. The final will be two hours long, the material will be comprehensive, and is worth 20% of your grade.

Late work and Make-ups: No late homework will be accepted. Early homework is welcome. No perfect practice will be accepted after the week it is assigned. In-class quizzes must be taken on the dates they are given (with the exception of one retake). Make-ups for exams are not given without good reason including, but not limited to, severe illness and work/military requirements. If you need to make-up an exam missed due to medical emergency I require a Doctor's note. In the event of unavoidable scheduling conflict for work: a note and contact information for your supervisor will be required in advance.

Academic Dishonesty: Cheating will result in failure of the course and may have a larger impact on your standing with the university. Cheating includes copying work, hinting, helping, and using notes/book (when not instructed to do so) on an in-class quiz or exam.

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 Gail Farmer, Equal Opportunity, at 509-963-2206, farmer@cwu.edu, Bouillon 205. Complete policies are available online at www.cwu.edu/hr.

Accessibility: Students who have special needs or disabilities that may affect their ability to access information or material presented in this course are encouraged to contact me or the Center for Disability Services (c ds@cwu.edu, 963-1202, Bouillon 140).

Important Dates:

January 4 First day of classes.

January 10 Add/Drop classes.

January 16 Martin Luther King Jr. Holiday. No classes.

February 17 Uncontested withdrawal period deadline.

February 20 President's Day. No classes.

March 10 Last day of class instruction.

March 13 Study Day.

March 17 FINAL EXAM

March 17 End of Quarter.

Other: Our classroom time will be for three things: learning new material through lecture, practicing with examples, and testing. The majority of our time will be spent on these first two. Expect that the start of a classroom session may include either lecture or practice. When new concepts have been introduced, we'll reinforce them with examples that the class will work through together and then we'll spend time individually or in groups to practice the methods.

Testing will come on a regular basis. Quiz days will typically begin with either lecture or discussion and include some practice before we attempt the quiz. To a lesser degree we may have time for practice and questions on Exam days.

Participation is not graded, but it is essential for your learning! I will often ask for your input in class. I may ask for students to "give me the next step" or even present a full solution at the board. Questions are also welcome when not requested. The more input I have from you, the better I can facilitate your learning needs.

Math requires lots of practice. Plan to spend a 1-2 hours outside of class for every hour in class. Reading your notes and text will only get you so far. The deepest understanding

comes from working through many examples and internalizing the concepts. Homework is a starting point for this practice, but you may require additional work to understand the concepts. I recommend examples in the text for further practice.

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.

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

and

www.cwu.edu/learning-commons/math-130