

Math 102 Mathematical Decision Making

Instructor: Danielle Jacobson

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Office Hours: 11-11:50 M-F or by appointment

Required Course Materials

- **Text:** Jeffrey Bennett and William Briggs, *Using and Understanding Mathematics: A Qualitative Reasoning Approach*, Pearson. We will be covering parts of Chapters 3,5,6,7, and possibly game theory.
- **Calculator:** scientific calculator is advised

Course Description

Selected topics from probability, statistics and mathematical decision making with real world applications. This course fills general education requirements and is not meant to be a prerequisite for any other course.

Course Goals

This course is designed to help students develop critical thinking skills, think logically, master the basic principles probability and statistics. Students should be able to use this skills to make education quantitative reasoning decisions.

Grading

Grades will be determined by the following weights:

Class Participation 10% Homework 5% Quizzes/Projects 30%

Exams 55%: First exam 11.67%, Second Exam 11.67%, Third Exam 11.67%, Final Exam 20%

Grades will be determined by the following scale (if .5 difference will round up):

93-100% = A 90-93% = A- 87-90% = B + 83-87% = B 80-83% = B - 77-80% = C +

73-77% = C 70-73% = C - 67-70% = D + 63-67% = D 60-63% = D - Below 60%=F

Grade Updates

Grades can be found under the grade sheet section of Canvas. I will update grades after exams. Your grade will be listed under the last 4 digits of your student ID number.

Class Participation

We will do several in class handouts/mini-projects during the quarter. Completion and/or participation in these activities will be recorded under the participation grade. I may collect these assignments and grade them on accuracy occasionally; this grade will also be included under the participation grade.

If you miss class during a activity day, you will not receive participation points for that handout. However, if you have a significant family/personal emergency I am more than happy to help you. If you have a medical issue I am happy to help you, as long as I receive a Dr.'s note. If you have an athletic or military event addressed with a note from a valid supervisor (coach, commanding officer) I will allow you to make up a missed in class handout. Basically, if you have a good, provable reason and notify me in reasonable time (before the missed class or the day after if a real emergency came up) you can still receive handout points. Having a Dr.'s appointment during handout days nearly every week does not count as an exception.

Please note that sleeping during class does not count as participating. Nor does working on other assignments. Nor does checking your facebook and/or texting. Nor does simply copying from group members and not helping at all. Thus, point deduction will result in those events.

Exams

There will be three exams given in this course (not including the final). For in class exams, you will get a list of the topics can be expected on the exams and I will give a study day in class before exams where I take any questions you have. Therefore, be sure to ask questions then (or come to my office more than a half an hour before the exam.)

Make-up Exams

Will not be allowed unless there is a valid reason (i.e. emergency room trip, work/military requirements, family death, etc.). With medical emergencies there must be a Dr.'s note. With work/military I will just need a note and contact info for your boss/supervisor. If there is a valid reason you missed, you must notify me of this reason within a day of the missed exam. If you know you are going to miss the exam early on, let me know so we can set up a time for you to take it early.

Homework

You will be assigned homework everyday. I will give you the due dates to these homework assignments in class. If you are unsure of what problems have been assigned, I will post them in the Homework section on Canvas, however it may take a day for them to be on Canvas, so you may want to contact a classmate and ask for the assignment if it is not posted yet.

Homework Guidelines

Homework must be neatly done. Please staple your assignments, write your name on your assignments, and label what the assignment is. No fringes on the paper. Indicate where your answer is by putting a box/circle/highlighting around the answer. If the homework does not meet these guidelines or I can't read it, I will not grade it.

Quizzes

We will have a take-home quiz or project every week that there is not an exam. Each quiz will be due at the beginning of class 2 days after it is assigned (so if assigned on a quiz Wed, it will be due on Friday at the beginning of class). You may work with other students, if you do so please write who you worked with on your quiz. Be sure you are writing your own solutions and turning in your own paper. Also note, working on these quizzes in class, simply copying answers from classmates, or having correct answers with no work, will result in an ungraded quiz. Attempting to receive help on the quizzes from tutors or the supplemental instructor will be considered cheating and result in a zero. You will fail the class if it happens more than once.

Quiz Guidelines

Same as homework except you need to turn it in on the given quiz sheet. You can find blank quizzes under the take home quiz section of Canvas if need be.

Late Homework/Quizzes

I will accept 1 late homework assignment and one late quiz for free, with no questions asked. You can have 2 extra days if you choose to take your late allotment. After that, I will only accept late homework and quizzes for valid emergencies. I will ask for proof of these emergencies.

Final Exam

A comprehensive final exam worth 20% of the final grade will be given at the end of the quarter covering all of the course's learner outcomes. You will receive a list of topics to expect on this exam and I will give you at least 1 class "study period". **You may not take the exam early, so please do not plan on it.**

Cheating: Is not allowed and will result in a failing grade.

Extra Credit

In general I do not give extra credit. However, if I do, it will be offered to the entire class. Please do not request individual exceptions.

Support Services

Students who have special needs or disabilities that may affect their ability to access information and/or material presented in this course are encouraged to contact the office of Disability Support Services on campus (963-2171).

Important Dates:

September 30: Last day to add/drop

November 11: Veteran's Day, no class

October 15: Faculty Day, no class

November 26-28: Thanksgiving break, no class

November 7: Last day to withdraw

December 8-11: Finals week

I reserve the right to change the policies contained in this syllabus as dictated by developments during the quarter.

