

Math 102.002 Winter 2012
Mathematical Decision Making

Instructor: Dr. Kathy Temple

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Office Hours: MF 9-9:50AM, T 11-11:50AM, W 9-9:50AM and 3-3:50PM, and by appointment.

Course Goals: This course is designed to help students develop critical thinking skills, master the basic principles of counting, probabilities, and statistics, and apply these techniques to quantitative decisions.

Required: Bennett and Briggs, *Using and Understanding Mathematics: A Quantitative Reasoning Approach*, 5th edition, Addison Wesley. We will be covering portions of chapters 3, 5, 6, and 7, and possibly adding a unit on game theory.

Calculator: You will need at least a scientific calculator. One that will perform basic statistical calculations on data (for example, a TI-30XII) will be useful. If you have questions about whether your calculator is suitable, please ask me.

Evaluation and Grading: Grades will consist of five components: group projects (30%), chapter/unit tests (30%), weekly check-in quizzes (10%), other assigned work (10%), and a cumulative final exam (20%). The final exam will be given on Tuesday, Mar. 13, from 12-2PM. Please note that the final exam schedule is set by the registrar's office and cannot be changed. Grades will be assigned according to the following scale:

		A	93-100%	A-	90-92.99%
B+	87-89.99%	B	83-86.99%	B-	80-82.99%
C+	77-79.99%	C	73-76.99%	C-	70-72.99%
D+	67-69.99%	D	63-66.99%	D-	60-62.99%
		F	59.99%		and below

General Course Policies: Daily attendance is expected and considered necessary for success. It is your responsibility to find out what was covered on days you were absent. Please bring your calculator to each class meeting. You are responsible for any announcements made in class regarding homework, projects, exams, and quizzes. Handouts from class will be posted on Blackboard.

All work handed in for the course must be written neatly, legibly, clearly, using correct mathematical notation, and with sufficient explanation. A good rule of thumb is to write your solution so that a classmate who knows roughly what's going on in the course but doesn't know how to do this particular problem can understand your solution. As a side benefit, this makes it much more likely that you will be able to understand your solution when you go back to study for exams or the final! The bottom line: for any written work handed in for the course, including quizzes, projects, homework, and exams, *you must show all pertinent work*.

Students with disabilities who wish to set up academic adjustments in this class should give me a copy of their "Confirmation of Eligibility for Academic Adjustments" from the Center for Disability Services as soon as possible so we can discuss how the approved adjustments will be implemented in class. Students without this form should contact the Center for Disability Services, Bouillon 205 or cdsreceipt@cwu.edu or 963-2171.

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

Homework: I'll assign problems from the book most days in class. These do not have to be handed in unless I specifically say that they are to be handed in and specify a due date. Collected homework will be assigned a point value and count as 'other assigned work' in your final grade. Late work will not be accepted. To aid the battle against procrastination, questions about the previous day's homework, *and only the previous day's homework*, will be taken at the beginning of class each day. Of course, I will happily take any and all homework questions during office hours. Keeping up with the homework is one of the best things you can do to help yourself succeed in this course!

Check-in Quizzes: Short quizzes will be given every Wednesday at the beginning of class, except for weeks with an exam. Quizzes will cover the material from the previous Tuesday through that Monday. These are intended to check that you are keeping up with the material and help me see if there are any concepts or problems that are causing difficulties. Quizzes will be a mixture of calculational problems and conceptual questions (give a definition, discuss a particular situation, etc.) depending on the material we are covering at the time. No make-up quizzes will be given, but to allow for unavoidable absences the lowest quiz score will be dropped. If you must miss a Wednesday class due to a school activity (e.g. class field trip or university-sponsored athletic event), that quiz can be excused if this is requested in advance and you supply me with a note from the instructor or advisor. Quizzes will be excused only for school-related activities.

Other In-Class Work: A couple of times per week, we will be doing group activities or small projects in class instead of lecture. Especially at the beginning of the quarter, I encourage you to use these as a chance to explore working with various members of the class, since you will need a group for the larger group projects, below. Each in-class activity will have a point value associated to it. Together with any homework collected, these will account for 10% of your course grade. These cannot be made up, and late work will not be accepted, but I will drop two assignments/in-class projects/worksheets. The in-class projects/worksheets can be excused for school activities using the process given above for quizzes.

Projects: There will be three large group projects during the course of the quarter. You will be required to be in a group of 3-4 people (no less than 3 and no more than 4) to complete these projects. You may select your own group, and you are free to change groups during the quarter. Project write-ups must be typed, written in complete sentences with correct grammar, and any graphs or figures must be either typeset or drawn neatly. Due dates will be announced at the time these are assigned. I expect that the last project will be due during the last week of classes.

Exams: There will be three unit tests given during the quarter. I will announce the date for each exam at least one week ahead of time. The first exam will probably be near the end of January, the second around the 23rd of February, and the third exam will probably be during the last week of classes. Make-up exams must be arranged ahead of time unless you can document an unexpected circumstance beyond your control that prevented you from taking the exam. For instance, in the case of illness, a doctor's note will be required (please note that Student Health will provide such notes for students, and that charges for Student Health are included in student fees). All make-up exams must be requested as early as possible. Exams requested more than 24 hours after the scheduled exam will be given only in extreme extenuating circumstances (e.g. hospitalization, jail . . .) When a make-up exam cannot be taken in a timely manner, typically before exams are returned to the class, I reserve the right to instead replace that portion of the course grade with the final exam grade.