

Mathematics 115 Grading and Policies Fall 2014

Contact Professor:

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- ✓ **Webpage:** <http://cas.umt.edu/math/courses/with-webpages/M115.php>
- ✓ **Tutoring:** Free tutoring is available at the tutorial center at Math@Mansfield, located in the Mansfield Library Main Floor next to the Copy Center. Hours will be posted on the website and announced once they have been determined.

Catalog Description:

(from <http://www.umt.edu/catalog/mathsci.htm>) U 115 Probability and Linear Mathematics 3 cr. Offered every term. Prereq., MAT 005 with a grade of B- or better or MAT 100 or appropriate placement score. Systems of linear equations and matrix algebra. Introduction to probability with emphasis on models and probabilistic reasoning. Examples of applications of the material in many fields. Credit not allowed for both MAT 115 and MATH 115.

Learning Goals:

1. To master the basic concepts of lines, linear systems and linear programming (graphical method only).
2. To understand basic probability concepts: probability models (Venn diagrams, two-way tables), sample spaces with equally likely outcomes (counting), conditional probability (tree diagrams), Bayes' theorem, binomial probabilities, probability distributions.
3. To understand the rudiments of statistics: measures of center and spread, the normal distribution and the normal approximation to the binomial distribution.
4. To learn how to use the above concepts to solve application problems (this includes to learn to precisely formulate a problem, and to interpret solutions).

Course Content:

1. Sets and Probabilities (Sets, Applications of Venn Diagrams, Basic Concepts of Probability, Conditional Probability; Independent Events, Bayes' Theorem)
2. Counting principles; Further Probability Topics (The Multiplication Principle, Permutations, Combinations, Probability Applications of Counting Principles, Binomial Probability, Probability Distributions; Expected Value)
3. Statistics (Frequency Distributions; Measures of Central Tendency, Measures of Variation, The normal distribution, Normal Approximation to the Binomial Distribution)
4. Linear Functions (Slopes and Equations of Lines, Linear Functions and applications, linear vs. exponential functions)
5. Problem Solving Guidelines, Uses of Percentages, Orders of Magnitude
6. Linear Programming, The Graphical Method (Graphing Linear Inequalities, Solving Linear Programming Problems Graphically, Applications)

Text:

Probability and Linear Math-11th Custom Edition, Tan, bundled with a WebAssign access code. A graphing calculator is also required. Classroom demonstrations will be done with a TI-83 Plus. A graphing calculator with symbolic capability, such as a TI-89, TI-92 or anything CAS will not be allowed on quizzes or exams.

Grading:

Your course grade will be based on 3 exams, 100 points each, for a total of 300 points (50% of your final grade). There will be ten quizzes of 10 points each with the lowest two dropped. The quiz total will be 120 points (20% of your final grade). There are **no** make-up quizzes. There will be clicker questions during lectures that will total 30 points (5% of your final grade). Finally, there will be a 150 point cumulative final exam (25% of your final grade). All the tests and quizzes are closed book, but calculators are allowed on all tests and quizzes. When a test is returned, there is one week from the date of return for contesting the grading. After that time period the grade will be accepted as final.

i>clicker:

We will be using the i>clicker response system, and you will be graded on your in-class participation. In order to receive credit for your responses, you need to register your clicker remote at www.iclicker.com/registration. You must have come to class at least once and voted on at least one question in order to complete registration properly. You should register as soon as possible.

<i>Grade</i>	<i>Grading Scale by Percentages</i>
A	90%+
B	89-80%
C	79-65%
D	64-55%
F	Less than 55%
CR	≥ 55%

*** If you are not taking this course as a general education requirement, you must take it for a traditional letter grade (not CR/NCR). A grade of “D-“is considered passing and will earn you credit for the course, BUT it will NOT fulfill your general education requirement and you will have to re-take the class***

Make-ups:

THERE ARE NO MAKE-UPS for the turn-in assignments and quizzes, regardless of the reason (e.g. sickness, sports, family emergency, etc.); this is why the lowest two are dropped. Exam make-ups will ONLY be given under special and extenuating circumstances, such as a death in the family or illness, provided that a note from the Health Service or doctor is furnished by the student AND permission is given by me **prior** to the exam. At most one make-up exam will be given. **It is your responsibility to notify me as soon as you know you will miss any exam and it must be either prior to or within 24 hours of the exam.**

Add/Drop Policy:

The last day to add/drop or change grading option to Audit by Cyberbear is **9/15**. The last day to change sections and to change grading options is **10/27**. This is also the last day to drop. Changes after this deadline and until **12/5** must be done by Petition to Drop/Add after deadline and approved by me, your advisor and the appropriate Dean. Approval requires genuine extenuating circumstances as listed in the university catalog.

Extenuating circumstances are:

1. Missing a substantial number of classes due to illness, accident or family emergency.
2. A change in work schedule that makes it impossible to attend class or devote adequate time to the course.
3. Registration in the course by error and never attending class.

Reasons that are not satisfactory include:

1. Forgetting to turn in a drop slip.
2. Protecting your grade point average.

Incomplete (I) Grades:

To be eligible for an “I”, the following conditions must be met:

1. The student must have been in attendance and passing the course up to 3 weeks before the semester ends; and
2. The student is unable to complete the course due to extenuating circumstances, which usually means serious illness or death in the family.

Incompletes are not given under any other circumstances and are always given at the discretion of the instructor. See the 2014-2015 catalog for further information.

Misconduct:

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the [Student Conduct Code](#). Available for review online at <http://www.umt.edu/SA/VPSA/index.cfm/page/1321>

Disability modifications:

The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and [Disability Services for Students](#). If you think you may have a disability adversely affecting your academic performance, and you have not already registered with Disability Services, please contact Disability Services in Lommasson Center 154 or call 406.243.2243. I will work with you and Disability Services to provide an appropriate modification.

Important University-Wide Info and Dates:

- Monday, 1 September: Labor Day. No school.
- Tuesday, 4 November: Election Day. No school.

- Tuesday, 11 November: Veterans Day. No school.
- 26-28 November: Thanksgiving Break. No school.

The following syllabus **is** subject to modifications (and in all probability will be changed due to timing!):

Week	Sections	Quiz and Exam Dates
8/25 – 8/29	6.1, 6.2, 6.3	
9/1 – 9/5	6.3, 6.4	Quiz 1
9/8 – 9/12	7.1, 7.2, 7.3	Quiz 2
9/15 – 9/19	7.3, 7.4, 7.5	Quiz 3
9/22 – 9/26	7.5, Review, Test 1	Test 1: Friday 26 Sept.
9/29 – 10/3	7.5, 7.6, 8.1	Quiz 4
10/6 – 10/10	8.1, 8.2, 8.3	Quiz 5
10/13 – 10/17	8.4, 8.5	Quiz 6
10/20 – 10/24	8.5, 8.6, Review, Test 2	Test 2: Friday 24 Oct.
10/27 – 10/31	1.1, 1.2, 1.3	Quiz 7
11/3 – 11/7	1.4, 1.5, 2.1	Quiz 8
11/10 – 11/14	2.2-2.6	Quiz 9
11/17 – 11/21	3.1-3.3	
11/24 – 11/28	Test 3, Thanksgiving!	Test 3: Monday 24 Nov.
12/1 – 12/5	Catch-up, Review	Quiz 10
	Final Exam	See below
	The final exam is currently scheduled for Wednesday, Dec. 10 from 8:00-10:00 A.M. However, I am trying to re-schedule it for early in the week in the late afternoon/evening. You will be notified of this change within the first month of the semester. Stay tuned!	