

Spring 2-1-2018

M 105.01: Contemporary Mathematics

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Mathematics 105
Grading and Policies Spring 2018

Contact Professor:

- ✓ **Lecturer: Omid Khormali**
- ✓ **Office: Corbin 365**
- ✓ **Email:** omid.khormali@umontana.edu
- ✓ **Office Hours:** Tuesdays: 11:00am-1pm, and Thursdays: 11:00am-11:50am (These times are changeable if they do not work for all of you). Also, please feel free to set up another time to meet with me. Email me to arrange a time.
- ✓ **Course Meetings: LA 244, 10:00am – 10:50am MWF**
- ✓ **Tutoring:** Free tutoring is available at the Math Learning Center located in the basement of the Math Building. Hours will be posted on the website and announced once they have been determined.
- ✓ **Course Coordinator:** First person to see with complaints, questions, etc. about this course that cannot be resolved with the instructor: **Lauren Fern** whose office is in **Math 205B** whose phone number is **243-5398** and whose email is fernl@mso.umt.edu

Catalog Description:

<http://www.umt.edu/catalog/colleges-schools-programs/humanities-and-sciences/mathematical-sciences/default.php>

M 105 - Contemporary Mathematics

Credits: 3. Offered every term. Prereq. M 090 with a grade of B- or better, or M 095, or M01 placement ≥ 19 , or ALEKS placement ≥ 3 , or ACT score of 22, or SAT score of 550 (with the new test). An introduction to mathematical ideas and their impact on society. Intended for students wishing to satisfy the general education mathematics requirement.

Learning Outcomes: Upon completion of this course, students will be able to:

1. Read mathematical material at an appropriate level, reason mathematically, and write using mathematical notation correctly.
2. Formulate a problem precisely, and interpret solutions.
3. Apply elementary probability theory to construct models of random phenomena, including the use of simulations.
4. Use elementary statistical tools such as measures of center and spread, graphical representations of data, and statistical estimation of population proportions.
5. Use tools from one or more areas of mathematics to solve theoretical or applied problems. The areas could include, but are not limited to, finance, management science (e.g., graph models for network problems), social choice and decision making (e.g., elections, voting, fair division, Congress apportionment), geometry (e.g., symmetry, tilings), or mathematical games.

General Education Learning Outcomes:

Upon completion of the mathematical literacy requirement, a student will be able to effectively apply mathematical or statistical reasoning to a variety of applied or theoretical problems.

Notes About the Course:

This course is designed to illustrate several ways in which mathematics is used in the “real world”. We will explore some topics of general interest which are not typically taught in a formal mathematics class. The goal is for you to see not only how useful mathematics is, but also how beautiful and elegant it can be.

Textbook:

Quantitative Literacy, 2nd ed. Crauder. In an effort to help drive down the costs, your faculty member and The Bookstore have worked with the publisher to bring your course materials at a lower cost through the school's Inclusive Access program. The cost of these materials has been charged to your student account. You still have the right to Opt Out and find these materials at the market rate. If you do so, your access will be cancelled and The Bookstore will issue a refund for the fee assessed to your tuition bill. This all inclusive program will give you access to Webassign which provides an e-book as well as supplemental learning programs. There is a print on demand option as well. If you decide you need a printed copy of the textbook, you can go to The Bookstore and request a copy from the textbook department.

In order to use the online homework and other helpful features on WebAssign :

Instructor

Omid Khormali

Section

M105, section 01

Class Key

umontana **6919 7039**

Grading:

Your course grade will be based on homework, exams, quizzes, in-class activities, and a project. There will be two midterm exams throughout the semester. All quizzes and exams will be announced at least one week ahead of time. **There is no required final exam in this class.** If you opt to take the final exam, the final exam score will replace your lowest midterm score, provided your final exam score is better than one of your midterm scores. The optional final exam will be cumulative. When an exam or quiz 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.

Assignments and Grading Structure:

<i>Assignment</i>	<i>Percent of Total Grade</i>
Homework	30%
Midterm Exams	30%
Project	20%
Quizzes	10%
In-Class Activities	10%

<i>Grade</i>	<i>Grading Scale by Percentages</i>
A	93% - 100%
A-	90% - 93%
B+	87% - 90%
B	83% - 87%
B-	80% - 83%
C+	77% - 80%
C	70% - 77%
D	60% - 70%
F	Below 60%

*** If you are taking this course to fulfill a general education requirement or a requirement for your major or minor, you must take it for a traditional letter grade (not CR/NCR). If you decide anyhow to take this course with CR/NCR grading, a grade of "D-" is considered passing and will earn you credit for the course, BUT it will NOT fulfill your general education requirement NOR any requirement for your major or minor.***

Communication:

I will periodically send out emails to your university email account, so please check this account regularly. If you have a smartphone, you might want to add your school email to your mail application of choice.

Class Meetings:

I aim for class meetings to involve more than the traditional lecture by incorporating classroom voting. While most class meetings will include going over course notes, there will also be problems for you to work on individually or with a small group. Additionally, some class meetings will be fully devoted to worksheets and developing mathematical ideas.

Homework:

Homework will be assigned often. There will be a written assignment due most Fridays. These assignments will be posted on Moodle.

Make-ups:

You may always turn in the homework assignments late for half credit. **THERE ARE NO MAKE-UPS** for the quizzes, regardless of the reason (e.g. sickness, sports, family emergency, etc.). Your lowest quiz score and three lowest "short" homework scores will be 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 **2/9**. The last day to change sections and to change grading options is **4/2**. This is also the last day to drop. Changes after this deadline and until **5/4** 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 2017-2018 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, 19 February: President's Day. No school.
- 26-30 March: Spring Break. No school.