M 105.02: Contemporary Mathematics

N'Djekornom Dara Laobeul

The University of Montana
Mathematics 105

Grading and Policies

Spring 2014

Course Lecturer: N'Djekornom Dara Laobeul
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Catalog Description: (from http://www.umt.edu/catalog/mathsci.htm)

U 105 Contemporary Mathematics 3 cr. Offered every term. Prereq., MATH 095D or appropriate placement score. An introduction to mathematical ideas and their impact on society. Intended for students wishing to satisfy the general education mathematics requirement.

Class Web Page: http://www.math.umt.edu/105

OH: Tuesdays 1-2pm, Thursdays 1:45-2:45pm, Fridays 4-5pm or by appointment at Corbin 261.

Course Coordinator: First person to see with complaints, questions, etc. about this course that cannot be resolved with the instructor.
Lauren Fern........Math 205B........243-5398........fernl@mso.umt.edu

Free Tutoring:
MLC
Monday - Thursday from 10am - 3pm; Friday 10-12
Math @ Mansfield
Monday - Thursday from 10am - 2pm; Friday 1-3
Monday - Thursday from 6:30pm - 9pm

Learning Goals:

1. To attain some degree of mathematical literacy, including an ability to read mathematical material and write using mathematical notation correctly. To develop skills to think and reason mathematically in order to function more effectively in the modern world.
2. To examine ways in which mathematics is used, to follow and understand logical arguments, and to solve applied quantitative problems. This includes learning to formulate a problem precisely, to interpret solutions, and to make critical judgments in the face of competing formulations and solutions.
3. To understand elementary probability concepts and phenomena: including sample spaces with equally likely outcomes, the basic parameters (mean, standard deviation), the normal distribution, and a qualitative view of the Central Limit Theorem.
4. To understand elementary statistical concepts, such as data description, statistical estimation, randomization, and statistical inference.
5. To explore and examine several other aspects of contemporary mathematics. This could include, but is not limited to, management science (e.g. graph models for network problems), social choice and decision making (e.g. elections, voting, fair division, Congress apportionment), or applied geometry (e.g. symmetry, tilings, growth rates).

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.
Grading: Your course grade will be based on 3 exams, 10 quizzes, attendance and a final project:

Three midterm tests: Feb. 21st, Mar. 21st, and Apr. 25th. (100 points each) 300 points.
Homework, attendance and Quizzes (50 points each) 150 points.
Final project (150 points) 150 points.

A: 100%-93%, A-:93%-90%, B+: 90%-87%, B: 87%-83%, B-: 83%-80%, C+: 80%-75%, C: 75%-70%, C-: 70%-65%
D+: 65%-62%, D: 62%-58%, D-: 58%-55%, less than 55%: F.

The range of a letter grade includes the numerical lower bound but not the upper bound at the exception of A.

A student that has a total of at least 405 points after quiz 10 can choose not to present a final project if he or she has taken all the quizzes. Homework of the previous week will be collected on Monday. After each section some problems will be assigned.

The following chapters of the book will be covered entirely if time permits: 2, 4, 5, 6, 8, 9.

Add/Drop Policy: The last day to add/drop or change grading option to Audit by Cyberbear is 2/14. The last day to change sections and to change grading options is 4/7. This is also the last day to drop. Changes after this deadline and until 5/9 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 2013-2014 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

Special Accommodations: Students with disabilities are welcome to discuss accommodations with me.

Important University-Wide Info and Dates:

- Monday, 17 February: President’s Day Holiday. No school.
- 31 March - 4 April: Spring Break. No school.