

UAB Department of Mathematics
SYLLABUS (Spring 2013)

MA 110 – Finite Mathematics

Semester: **Spring 2013** Section: ZNC Course ID: **land58024** UAB zip code: **35294**

Instructor: Heather Land Instructor e-mail: hland@uab.edu phone: 934-2154

Instructor office hours: TBA

NOTE: All instructor office hours are conducted in the UAB Math Learning Laboratory (MLL), 202 HHB (Heritage Hall).

REQUIRED meeting times:

Class Meeting Time/Location: Wednesdays @ 1:25pm, EB 145

Lab Meeting Time/Location: Mondays @ 1:25pm, HHB 202

Attendance policy: Attendance at every class meeting and lab meeting is **REQUIRED**. There are 14 scheduled class meetings and 14 scheduled lab meetings. Students earn *up to* 15 Participation Points toward their final grade for each class meeting attended and 5 points for each lab meeting attended. ***To earn the Participation Points students must be ON TIME and STAY THE ENTIRE TIME in the classroom or lab.*** NO participation points are given to students who arrive late or leave early. The following rules apply:

1. **Students may not sign the roll for another student or turn in/hold a paper for another student.** This is considered academic misconduct and will be reported to the appropriate authorities.
2. **If you come LATE to the class/lab meeting, you will not earn the participation points.**
3. **Do not sign the roll if you intend to leave the class/lab early.** This is considered academic misconduct.
4. In case of emergency, students may need to leave the class/lab early. Notify the instructor and leave quietly with minimal disruption to the rest of the class.
5. **NO participation points can be earned if the student is absent, whether or not the absence is excused.** If you are absent on *official university business*, arrangements must be made IN ADVANCE of the absence to make up any missed work.

Prerequisite: Undergraduate level MA 096 Minimum Grade of C or Undergraduate level MA 097 Minimum Grade of C or Undergraduate level MA 098 Minimum Grade of C or Undergraduate level MA 102 Minimum Grade of C or (ACT Math Score 20 and High School GPA 2) or ACT Math Score 21 or (SAT Mathematics 480 and High School GPA 2) or SAT Mathematics 500 or MA Screening-Advanced 15.

Aims of Course: Upon successful completion of MA110, a student

- is able to compute using arithmetic and elementary algebra in a variety of problem situations;
- is able to identify the problem and translate verbal descriptions into mathematical form;
- is able to evaluate the reasonableness of quantitative assertions;
- is able to interpret and construct graphs, tables, and schematic representations of mathematical relationships;
- understands elementary probability, and is able to draw conclusions based upon probability;
- is able to select and use appropriately quantitative evidence and inferences;
- is able to communicate results of mathematical investigations in a manner appropriate to the audience;
- is persistent in attempting to solve mathematical problems.

This course is more about developing quantitative reasoning ability than acquiring any specific set of mathematical skills (algebra, arithmetic, etc.). The above learning outcomes are realized in the course in a variety of contexts, including consumer mathematics, voting theory, apportionment, counting, probability, and descriptive and inferential statistics.

Course Structure: This course is primarily computer-based. All homework assignments are on-line and can be completed either on your own computer or using one of the computers in the UAB Math Learning Lab (MLL in 202 Heritage Hall). **All quizzes must be completed in the MLL (during MLL hours)** anytime BEFORE the scheduled deadline. All tests are also done on the computer, but they must be taken in the MLL according to your class schedule during your lab meeting time.

In order to receive credit for homework and quizzes, the work must be done ON or IN ADVANCE of course deadline dates. See the course schedule for the course deadline dates.

Materials: All students are required to purchase the *Thinking Mathematically Package UAB*, which includes a *UAB Math 110 Text (softcover)* and MyMathLab **ACCESS CODE**. The UAB Math 110 Text is a customized text that only contains the chapters that are being covered in the course. (Purchasing the package is usually the least expensive way to get the required materials.)

The full textbook, *Thinking Mathematically, 5th edition*, by Robert Blitzer, published by Pearson Prentice-Hall, 2011 is optional. If students prefer a hardcover textbook, they may purchase this edition **instead of** the softcover UAB edition, but they must still purchase an access code.

If a student is retaking MA 110, he should contact the instructor about directions for reenrolling.

BE sure to PURCHASE only ONE TEXT and ONE ACCESS CODE.

A basic or scientific calculator is recommended for use in class. During testing, only the MyMathLab basic calculator or the computer scientific calculator may be used (no personal calculators).

Getting Started: The first thing you must do is REGISTER for your on-line course materials.

You cannot complete any Homework or Quizzes until you have registered in MyMathLab.

You must have a MyMathLab ACCESS CODE (part of the bundled materials, but may also be purchased as a stand- alone item or online).

If you do not have a MyMathLab ACCESS CODE by the first lab meeting, you can set up *temporary access* to the online materials, but you **MUST CHANGE** to permanent access within 17 days (directions are given after you log in to your Pearson account).

There will be **NO EXTENSIONS for temporary access.**

There will be **NO EXTENSIONS for missed homework, quiz, or test deadlines** due to failure to change to permanent access or failure to purchase required materials.

Registering for a Course in MyMathLab

Go to <http://pearsonmylabandmastering.com> and click the Register button for students.

Follow the instructions provided. Students will need the following:

1. **CourseID** for MA 110-ZNC, land58024

2. A **Pearson account**.*

During registration, students should SIGN IN (if they have a Pearson MyLab account) *or* CREATE a NEW ACCOUNT.

*NOTE: The **SIGN IN NAME MUST BE** the student's **BlazerID @uab.edu**.

For example, if your blazerID is goblazers, your Sign In Name must be goblazers@uab.edu.

3. Student Access.

MyMathLab Student Access Kit (8 ½ by 10 inch cardboard package with a code inside)

This is bundled with your text or can be purchased alone.

You may also purchase student access **ONLINE** with a credit card.

4. The UAB zip code, which is **35294**.

Math Help. Tutoring assistance is available in the Math Learning Lab (**MLL**) located in **202 Heritage Hall**. The hours of operation are posted outside and can also be viewed on-line at www.uab.edu/mathematics under *Student Resources*. If you have problems with your computer or your quiz while you are in the lab, always ask a tutor for assistance.

Calculator policy. Scientific calculators may be used in class and for homework and quizzes, but **students may NOT use personal calculators during testing**. Note that all tests for this course are administered in the MLL during your scheduled lab meeting times, and there is a computer calculator available for your use when testing. Your instructor will not assist you with the computer calculator during a test, so it would be to your advantage if you familiarized yourself with the use of the computer calculator in the Math Learning Lab **BEFORE** you have to take a test.

Course Grades: Students earn their grade in the course by accumulating points. There is a maximum of 1000 points available. Students can click on the link in MyMathLab or go to <https://secure.cas.uab.edu/ml/db/> to review the status of their grades in the course. Note that **grades are awarded by TOTAL POINTS EARNED**, not by percentages.

Student letter grades are awarded as follows:

Grade Element	Points	Quantity	Total Points
Homework	5	14	70
Participation Pts	15	14	210
Quizzes	5	14	70
Lab attendance	5	14	70
Tests	145	4	580
Total points			1000

Points Earned	Course Grade
880-1000	A
750-879	B
620-749	C
500-619	D
Below 500	F

Homework: There are 14 homework assignments. Each homework is worth 5 points. Homework may be completed at home or in the MLL. **An unlimited number of attempts can be made on each homework question.** If a question is marked incorrect, click on *Similar Exercise* at the bottom and correctly answer a new question for full credit (before the deadline). **You can go in and out of the homework as many times as you like before the deadline (*all of your work is automatically saved*).** You earn points for homework completed ON or BEFORE the due date. After the due date, you can review homework assignments, but you cannot change your score. Homework can and should be completed IN ADVANCE of deadlines.

Quizzes: There are 14 quizzes. Each quiz is worth 5 points. **Quizzes must be taken in the Math Learning Lab** (any time during the scheduled hours of operation). Each quiz can be taken a maximum of two times, and the higher grade attained will count. **Once you begin a quiz you have 30 minutes to complete it. You cannot exit the quiz** or that will count as one of your attempts. You take the quizzes in the MLL on your own schedule, but you can only earn the quiz points if the quiz is taken ON or BEFORE the due date. You must complete the quiz BY YOURSELF. **You may not obtain assistance from a fellow student or from a tutor**, but you may use your textbook and notes for quizzes. Quizzes can and should be completed IN ADVANCE of deadlines.

All quizzes require a **password**, and the passwords are available in the MLL at the front desk. If you have trouble with a quiz password or a computer in the MLL, please see a tutor.

Tests: There are 4 major tests. Each test is worth 145 points. Tests will be taken under the supervision of the instructor in the MLL (202 Heritage Hall) **during scheduled computer lab meeting times**. Scratch paper will be provided. **NO PERSONAL CALCULATORS** are allowed. Each test has a 50 minute time limit. **Students are required to keep a government issued photo ID on their desks during testing (UAB student ID, driver's license, etc).**

Four Practice Tests are available in MyMathLab. The Practice Tests do not count towards your grade, but they are recommended as a way to help you prepare for your tests. You may take the practice tests as many times as you like.

Class Meetings: There are 14 class meetings. For each class meeting that you attend, you can earn **up to 15 Participation Points**. Class meeting format is **group work**. An individual written report on the group work is completed by each student prior to the end of class and turned in for evaluation. Rules and standards for group work, report evaluation, and awarding of participation points will be addressed at the first class meeting.

NO PARTICIPATION POINTS are awarded for LATE ARRIVALS or ABSENCES (excused or unexcused).

MLL Attendance: There are 14 lab meetings. Each lab meeting is worth 5 points. Roll will be taken. Points are earned only if you are **ON TIME, PARTICIPATE** by working on course materials, and **STAY for the entire meeting** (until dismissed). Students who do not fully participate will not earn the participation points. **NO POINTS** are awarded for an absence (excused or unexcused).

Students can work on their homework, take quizzes, obtain tutoring assistance, and listen to course video lectures in the MLL. (To watch and listen to computer video lectures, students can bring their own headsets or can check out a headset from the MLL.)

When you come into the MLL, you must log on to the course homework system.

Click on IE. You will be prompted to enter your BlazerID and password.

Click on the appropriate course box (MA 110).

Click proceed, then click on MyMathLab and sign in.

Minimize the red box, but don't close it until you leave (this records your time in the lab).

Make-up policy: NO MAKE-UPS are allowed. There is no appeal for missed participation points, lab attendance points, homework deadlines, or quiz deadlines. If a student has to miss class or lab due to *official university business*, then arrangements must be made **IN ADVANCE** to make up the missed work. Since HW and quizzes can and should be completed in advance, there are no make ups allowed for these. In case of emergency circumstances, students should contact the instructor as soon as possible.

If a test date is missed due to a **serious verifiable** circumstance (not failure to purchase permanent access to MyMathLab), the student may submit an Appeal Form (available in the Math Department

Office, 452 Campbell Hall) to the Math Department Appeals Committee. The *completed* Appeal Form, along with supporting documentation attached, must be submitted **within one week** to the Math Department Office, 452 Campbell Hall.

The Appeal Form with supporting documents attached must be received no later than ONE WEEK after the missed deadline.

The appeal will be reviewed by the Director of Curriculum, the course instructor, the course coordinator, and the Director of the MLL. The student will receive a prompt reply as to the adjudication of the appeal but should continue working in the course.

Course Completion: The course is complete once the student takes Test 4. No other points may be earned after test 4 has been taken.

Cell Phones. Student cell phones must be **silenced and put away** during all class and lab meetings. During testing in the MLL, all cell phones must be silenced and out of sight when testing begins. Use of cell phones during testing is considered academic misconduct.

Notebook. Students should have a notebook in which they can record class meeting notes, work out their HW problems, and keep course related information.

Disability Support Services (DSS). DSS approves special accommodations to students who qualify. The UAB DSS office is located on the fifth floor of the Hill University Center, telephone: 934-4205, e-mail: dss@uab.edu. **Students who have DSS-approved accommodations should meet individually with the instructor as soon as possible to discuss their accommodations.** No accommodations can be granted unless they are approved by the DSS office and given directly to the instructor.

Course Description: (3 semester hours). The first course hour is a meeting each week with the course instructor in a group work format. The second course hour is a meeting with the instructor in a supervised lab format. The third course hour is a self-study period in the Math Learning Lab working with Math Lab tutors and an on-line course instruction system. Topics covered in the course include: Percent, Consumer Mathematics, Voting and Apportionment, Counting and Probability, Statistics.

Withdrawal:

The last day for withdrawing from this course (without the payment of full tuition and fees) is Jan 16, 2013. The last day to withdraw from this course with a grade of **W** is Mar 28, 2013.

Students withdraw from a course by completing the appropriate paperwork in the UAB Registrar's Office in the Hill University Center. The signature of the instructor is not required.