SYLLABUS (MA 105-60)
Course ID: larussa34093
**IMPORTANT FACTS ABOUT MA105**

When you create your account on CourseCompass you must use your BlazerID followed by @uab.edu as your LOGIN name.
Example: If your BlazerID is goblazers use goblazers@uab.edu

Class Meeting Structure:
Class and Lab meetings will be held on **TR 8:00 am to 8:50 am**
Class Meetings held in **EB 145** and lab meeting held in 202 Heritage Hall.
See Course Schedule for dates/times.

**MA 105** is a 3-hour course with 1 lab hour required for each 50 min class meeting.
The lab hours are scheduled and led by your instructor in the Math Learning Lab 202 Heritage Hall.

Tests will be taken under the supervision of the course instructor during the scheduled lab meeting times in 202 Heritage Hall.
Tests are limited to 50 minutes.
On test days, you must bring a UAB photo ID, driver’s license, or gov’t-issued ID.
Quizzes must be taken in the MLL. They are limited to 30 minutes.
Homework can be done in the MLL or at home.

Students receive PARTICIPATION POINTS when they attend a complete lecture or lab meeting (arriving on time and staying until the end of class or lab). No Participation Points are awarded for an absence (excused or unexcused).

There are no make-ups for missed deadlines for homework and quizzes.
This is because the work should be done IN ADVANCE of the deadline dates.

There is a formal appeal procedure if a student misses a test deadline.
Appeals are approved only if there is a serious, verifiable circumstance.

Students are required to check their blazerID@uab.edu email address for official course communications.

The final exam is comprehensive. It will be given during your scheduled exam time.
Work should be completed before deadline dates but cannot be completed after deadline dates. Deadlines for homework, quizzes, and tests are INDEPENDENT of one another.

You do not have to complete homework to take quizzes or tests. (However, it is recommended.) There are no prerequisites for any of the graded assignments.

Once you take the Final Exam the course is complete, and no additional homework assignments or quizzes will count toward your grade. You must attempt the Final Exam to complete the course (even if you have 620 points prior to taking the Final exam).

### DEADLINE DATE SUMMARY

<table>
<thead>
<tr>
<th>No.</th>
<th>Text sections</th>
<th>Date</th>
<th>No.</th>
<th>Text sections</th>
<th>Date</th>
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<th>Text sections</th>
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<tbody>
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<td></td>
<td></td>
<td>Final Exam</td>
<td>5/03/11 8:00-10:30 am</td>
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HOW YOUR GRADE IS CALCULATED

Your grade is calculated based on the number of points that you earn.

You can earn a maximum of 1000 points.

<table>
<thead>
<tr>
<th>Number of Points</th>
<th>Letter Grade</th>
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<tbody>
<tr>
<td>880 to 1000</td>
<td>A</td>
</tr>
<tr>
<td>750 to 879</td>
<td>B</td>
</tr>
<tr>
<td>620 to 749</td>
<td>C</td>
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<tr>
<td>500 to 619</td>
<td>D</td>
</tr>
<tr>
<td>Below 500</td>
<td>F</td>
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</table>

Note that 879 points earns you a grade of B, not a grade of A, etc.

WHERE DO THE POINTS COME FROM?

<table>
<thead>
<tr>
<th>Grade Element</th>
<th>Points</th>
<th>Quantity</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>5</td>
<td>14</td>
<td>70</td>
</tr>
<tr>
<td>Participation Points</td>
<td>5</td>
<td>14</td>
<td>70</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10</td>
<td>14</td>
<td>140</td>
</tr>
<tr>
<td>MLL attendance</td>
<td>5</td>
<td>14</td>
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<tr>
<td>Tests</td>
<td>100</td>
<td>4</td>
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<tr>
<td>Final Exam</td>
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</tr>
<tr>
<td>Total points</td>
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</tbody>
</table>
SYLLABUS (MA 105-60)

MA 105 – Pre - Calculus Algebra

Semester: Spring 2011  Section: MA 105-60  Course ID: larussa34093  UAB zip code: 35294

Instructor: Dr. LaRussa  Instructor e-mail: alarussa@uab.edu  phone: 934-2154

Office location: CH452

NOTE: All instructor office hours are held during lab meeting time in the UAB Math Learning Laboratory (MLL), room 202 Heritage Hall. Other times are available by appointment.

Class Meeting Time/Location: Thu 8:00 am to 8:50 am EB 145
Lab Meeting Time/Location: Tue 8:00 am to 8:50 am Heritage Hall 202

Attendance policy: Attendance at every class meeting and lab meeting is required. Roll will be taken. There are 14 scheduled class meetings and 14 scheduled lab meetings. Students earn 5 participation points toward their final grade for each class or lab meeting attended. To earn the Participation Points students must be in the classroom or lab at the start of the meeting and at the end of the meeting. The following rules apply:

1. Students may not sign the roll for another student. Violation of this policy will result in a grade of F for academic misconduct.
2. If you come late to the class meeting, and the roll has passed your seat, do not ask to sign it.
3. Do not sign the roll if you intend to leave the class early.
4. In case of emergency, students may leave the class without the instructor’s permission. Just get the instructor’s attention 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, you can obtain tutoring to earn the participation points. Arrangements must be made in advance of the absence.

Prerequisite. Grade of “C” or better in MA 102., or beginning freshmen meet Math Screening requirements (see ACT/SAT Math Subscore/GPA Grid in the latest UAB Class Schedule). Transfer students must have an appropriate score on the Advanced Screening Test in order to be eligible for MA 105.
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 lab hours or anytime before the scheduled deadline (please note that deadlines include specific dates and times). All tests and the final exam 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 at the front of this syllabus for the course deadline dates.

Materials: Precalculus Algebra MA 105 package, which includes a UAB Math 105 Student Workbook, by Elena Kravchuk, 2nd edition, 2010, Pearson/ Prentice Hall, and MyMathLab ACCESS CODE, is required. You do not need an access code and can purchase the UAB MA 105 workbook as a stand-alone item if you are retaking MA 105 previously taken in Fall 2010.

Getting Started: The first thing you must do is register for your on-line course materials. You cannot complete any assignments until you have registered in CourseCompass. Go to www.coursecompass.com and click the Register button for students. Follow the instructions provided in the MyMathLab handout attached to the back of this syllabus. To register, you will need the following:

1. Your BlazerID@uab.edu email address. Every student at UAB is required to have an @uab.edu email address for official university and instructor communications, and for registration in this course. The Math Department standard for the required student login name is your BlazerID followed by @uab.edu; for example, if your BlazerID is goblazers, your login name should be goblazers@uab.edu. USE THIS COMPLETE UAB EMAIL ADDRESS FOR YOUR LOGIN NAME.
2. The Course ID for this particular section of MA105. Your Course ID is larussa34093
3. A Student Access Code. This is the access code that you purchase with the workbook. It comes inside an 8 ½ by 10 inch cardboard package labeled MyMathLab Student Access Kit.
4. The zip code for UAB. The zip code 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 on the door and can also be viewed on-line at www.math.uab.edu, under Math Lab: Hours of Operation.

Calculator policy. Scientific calculators may be used for homework and quizzes, but students may not use personal calculators while taking tests. Note that all tests and the final exam for this course are administered in the MLL during your scheduled lab meeting times, and there is an on-screen scientific calculator available for your use when testing. Your instructor will not assist you with the on-screen calculator during a test, so it would be to your advantage if you familiarized yourself with the use of the on-screen calculator in the MLL 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. Student letter grades are awarded as shown in the following tables. Students should go to info.math.uab.edu to review the status of their grades in the course. Note that grades are awarded by points earned, not by percentages.

<table>
<thead>
<tr>
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<td>1</td>
<td>250</td>
</tr>
<tr>
<td>Total points</td>
<td></td>
<td></td>
<td>1000</td>
</tr>
</tbody>
</table>

Homework: There are 14 homework assignments. For each assignment you can earn up to 5 points, based on your homework score. An unlimited number of attempts can be made on each homework problem. If you miss a problem, click on similar exercise to work another problem correctly for full credit. There is no time limit for homework, so you may go in and out of the homework as many times as you like before the deadline (all 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 and work similar exercises, but you cannot change your score.

Class Meetings: There are 14 class meetings. For each class meeting that you attend you will earn 5 participation points. Points are earned if you are on time, and if you stay in the classroom for the entire class meeting. No participation points are awarded for an absence (excused or unexcused).

Quizzes: There are 14 quizzes. Each quiz is worth 10 points. Quizzes must be taken in the Math Learning Lab (during the scheduled hours of operation) on or before the deadline. Please note that the quiz deadlines include specific dates and times. All quizzes require a password, and you will find these listed on a desktop sign in the MLL near the main entrance. You must complete the quiz by yourself. You may not obtain assistance from a fellow student or from a tutor. The quizzes are timed. Once you begin a quiz you must finish it within 30 minutes. You cannot exit the quiz or that will count as one of your attempts. Each quiz can be taken a maximum of two times. The higher grade attained will count.

MLL Attendance: There are 14 lab meetings. For each lab meeting that you attend, you will earn 5 points. Points are earned if you are on time, and if you stay in the lab for the entire meeting. 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. To log on, click on the appropriate course box. Then you will be prompted to enter your BlazerID and password.

**Tests:** There are four major tests to be taken. Tests will be taken in **Heritage Hall 202** during scheduled lab meeting times. The tests are timed and are 50 minutes long. **Students are required to keep a government issued photo ID on their desks during testing (UAB student ID, driver’s license, etc).**

**Make-up policy:** There is no make up for missing any of the following: Participation Points, lab meeting attendance points, homework deadlines, or quiz deadlines. If a major test deadline is missed due to a **serious verifiable** circumstance, the student may submit an Appeal Form (available in the Math Department Office in 452 Campbell Hall) to the Math Department Appeals Committee. The Appeal Form, along with supporting documents attached, must be received no later than one week after the missed deadline. The appeal will be reviewed by the Director, the course instructor, the course coordinator and the Supervisor of the MLL. The student will receive a prompt reply as to the adjudication of the appeal, but should continue working in the course.

**Final Exam:** Students take the final exam just as they take the major tests. The final exam will be given on **April 28, 2011, at 8:00 am-10:30 am.**

**Course Completion:** The course is complete once the student takes the final exam. No other points may be earned after the final exam has been taken.

**Cell Phones.** Student cell phones must be TURNED OFF and PUT AWAY during ALL class and lab meetings.

**Notebook.** Students are required to have a folder in which they can file the workbook, record class meeting notes, file this syllabus, file instructor e-mail messages, and file other course related information.

**Disability Support Services (DSS).** DSS offers tutoring and 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 a DSS-approved accommodation for extended test times will take quizzes and tests that have a longer time duration. See your instructor for further information.

**Education Technology Services (ETS).** ETS is another lab on campus that has the MyMathLab software installed. Students may do homework or review their work on the computers in ETS when the MLL is
closed. Please note that tutors are not available and quizzes may not be taken at ETS. The ETS hours of operation can be found at www.mhsl.uab.edu/ets/.

**Withdrawal:** The last day for withdrawing from this course without the payment of full tuition and fees is **January 11, 2011**. The last day to withdraw from this course with a grade of **W** is **March 24, 2011**. 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.

**Course Description:** (3 semester hours). Functions from algebraic, geometric (graphical), and numerical points of view, including polynomial, rational, logarithmic, and exponential functions; inverse functions; quadratic and rational inequalities; complex and real roots of polynomials; applications and modeling, both scientific and business.

**Learning Outcomes:**

- Students can apply distance and midpoint formulas for solving geometric problems algebraically. Students recognize and graph equations of circles, and can identify the center and radius of a circle given the standard equation or the general equation of a circle.

- Students understand the concept of a relation and a function and the meaning of their domain and range. Students understand the algebra of functions, composite functions, and inverse functions.

- Students can read and interpret data presented in a graphical form, recognizing intervals of increasing or decreasing function value, and identifying maximum or minimum values of a function.

- Students can apply basic graphing principles in graph sketching. Students can graph quadratic functions identifying the vertex, intercepts, axis of symmetry, and can use the graph for solving quadratic inequalities.

- Students can graph polynomial functions when their zeros can be found. Students can use long division and synthetic division to divide polynomials, and understand the Factor and Remainder Theorems.

- Students are familiar with the graphs of basic rational and radical functions. Students can solve polynomial and rational inequalities by doing sign analysis.

- Students recognize the graphs of basic exponential and logarithmic functions, and can find their domain, range, and asymptotes. Students can solve exponential equations. Students can evaluate logarithms, simplify logarithmic expressions, and use the properties of logarithms to solve logarithmic equations.
• Students can solve real-life applied problems involving polynomial, exponential or logarithmic functions.

Registering for a Course in Coursecompass

I. Go to [www.coursecompass.com](http://www.coursecompass.com).

II. Click on Register under Students.

III. Choose one of the following:
   - Get access to a new course
   - Continue a course, re-take a course, or switch to a different course section.

IV. Next.

V. Enter your CourseID and click Find Course.

VI. Choose one of the following:
   - Access Code
   - Buy Now.

VII. Follow the directions to complete your registration.

VIII. You must use the following:
   - Login Name must be [BlazerID@uab.edu](mailto:BlazerID@uab.edu)
   - UAB’s zip code is 35294.

IX. Questions? Ask your instructor or someone in the MLL.