UAB Department of Mathematics
SYLLABUS (MA 102-OV)

MA 102 - Intermediate Algebra

Semester: Summer 2017  Section: OV

Instructor: Dr. Elena Kravchuk  Instructor e-mail: kravchuk@uab.edu  phone: 934-2154

Instructor office hours:

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:  Tue/Thu 10:20 am -11:10 am EB 145
Lab Meeting Time/Location:  Tue/Thu 11:20 am -12:20 pm Heritage Hall 202

** BE SURE TO READ THE STUDENT EXPECTATIONS STATEMENT ON PAGE 3 FOR IMPORTANT INFORMATION ABOUT THE COURSE.**


Learning Outcomes:

Upon successful completion of MA102, a student

- can solve linear equations and inequalities in one variable, can solve absolute value equations and inequalities, and can use interval notation and the real number line for describing solution sets. Students can graph linear equations in two variables, and are able to recognize and use the equation of a straight line in different forms.
- can use the slope to identify parallel or perpendicular lines, can solve linear systems of two equations algebraically and by graphing lines, and can use linear systems of two equations to solve a variety of verbal problems.
- can perform arithmetic operations on polynomial expressions, factor polynomials, and solve polynomial equations by factoring. Students know that solving polynomial equations of higher degree is intrinsically difficult.
- can identify rational expressions and functions and their domains, can multiply, divide, add, and subtract rational expressions, simplify complex fractions, and solve rational equations.
- will know the rules of exponents and can apply them to simplify expressions involving positive and negative rational exponents. Students are able to combine, multiply and divide radical expressions and solve radical equations.
- will be able to solve quadratic equations by factoring, by the square root method, by completing the square, and by using the quadratic formula. Students can interpret square roots of negative numbers as complex numbers and perform arithmetic operations on complex numbers.
- can create, interpret, and use linear, polynomial, and rational models to solve problems in a variety of application areas.

Prerequisite. “C” or better in MA 096, Ma097, or MA 098, or “P” in MA 098. Or, beginning freshmen meet Math Screening requirements (see ACT Math Subscore/GPA Grid in the latest on-line UAB Class Schedule). Transfer students must have an appropriate score on the Advanced Screening Test in order to be eligible for MA 102.

Materials: Intermediate Algebra MA 102 package, which includes (1) a UAB Math 102 Student Workbook, by Elena Kravchuk, Pearson/Prentice Hall, and (2) MyMathLab Plus ACCESS CODE for MA 102, is required. You must purchase the ACCESS CODE unless you are repeating the course and the same online textbook is being used.
Attendance policy:Attendance at every class meeting and lab meeting is required. Roll will be taken. There are 13 scheduled class meetings and 13 scheduled lab meetings. Students earn 5 participation points toward their final grade for each class or lab meeting attended, provided the following conditions are met:

1. **Students must be in the classroom or lab at the start of the meeting until the end of the meeting.**
2. Students must participate in class with their workbook open, taking notes.
3. All electronic devices (cell phones, laptop computers, etc.) must be turned off and put away during class.
4. **Students may not sign the roll for another student.** Violation of this policy may result in a grade of F for academic misconduct for both students.
5. If you come late to the class meeting, and the roll has passed your seat, do not ask to sign it.
6. Do not sign the roll if you intend to leave the class early.
7. A sign-out may be required if students have left class early.
8. **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.

**This is a 3 credit hour course. The first course hour is a classroom meeting once a week with the course instructor. The second course hour is a laboratory meeting with the instructor in a supervised lab format. The third course hour is a self-scheduled, self-study period in the Math Learning Lab working with Math Lab tutors and a computer-based course instruction system.**

Course Structure: This course is primarily computer-based. All homework assignments and quizzes 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 tests and the final exam must be taken in the MLL during your lab meeting time. **In order to receive credit for homework and quizzes, the work must be done in advance of course deadline dates.** See the course schedule for the course deadline dates.

Access for a Course in MyMathLab Plus

All Homework, Quizzes, and Tests for this course are available only in MyMathLab Plus. A MyMathLab Plus account has already been established for you and must be activated.

- Log in to BlazerNet and click on the MyMathLab Plus link.
- Click on your course.
- Choose one of the following:
  - Access Code (enter your purchased code)
  - Buy Now (credit card required)
  - Pay Later (allows temporary access, good for only 14 days, no extensions when it expires)*

*Once Pay Later (Temporary Access) has expired, you will be prompted to choose Access Code or Buy Now. You will no longer have access to your course materials and assignments in MyMathLab Plus until you enter your code or purchase it. Please note that there will be NO EXTENSIONS for missed homework, quiz, or test deadlines due to failure to purchase access to your online materials.

If you have any questions regarding your MyMathLab Plus account, email me or you may stop by the Math Learning Lab in HHB 202 and ask the staff.
TROUBLESHOOTING TIPS:
If you have difficulty accessing your assignments in MyMathLab Plus, try the following steps:

• Close the browser and start over logging into BlazerNet. You can only access through BlazerNet.
• Run the Browser check to make sure you have all needed components.
• Try a different browser. Some work better than others
• Try turning the computer off, then back on and start over.
• If you are working at home, you may have to reboot your router.
• Contact Pearson technical support via chat.
• Have a backup plan: Go to the MLL in HHB 202 and do your work there. Ask the staff for help.
• If the above steps do not work, email your instructor.

STUDENT EXPECTATION STATEMENT
The Course Syllabus and Schedule serve as a Contract by which the student must comply. An excuse of “not knowing” information covered in these documents is not an acceptable excuse for mistakes in this class.

**To emphasize the importance of knowing the syllabus you must take a Syllabus Quiz before beginning any other assignments. You must score 100% on this quiz in order to continue the course. You may retake the Syllabus Quiz as many times as necessary to achieve 100%.

• Students are required to complete weekly assignments (homework and a quiz). All deadlines are based on Central Time. There are NO EXTENSIONS of DEADLINES.

• Students are expected to check their UAB e-mail daily and respond within 48 hours to instructor emails. Regular communication via e-mail with the Course Instructor is expected. Be sure to include your name, the course and section number in all communications with your instructor.

• It is the student’s responsibility to make sure a valid e-mail address is provided. Failure on the student’s part to do so can result in the student missing important information that could affect his grade. Students are responsible for the information that is sent to their UAB e-mail account.

• Students are expected to devote an average of 8 to 12 hours per week to the assignments.

• Students are expected to have a back-up plan in the event their computer has operational problems, there is loss of electricity, or there is loss of Internet access. These events are not acceptable as an excuse for late or incomplete submission of assignments, nor are they acceptable reasons for an assignment deadline extension. UAB’s MLL, most public libraries, school libraries, university libraries, etc. have computers with Internet access and are available for use by the public.

MATH HELP – The Math Learning Lab (MLL) in 202 Heritage Hall is available for student use Monday through Friday. Students in this course may use the computers to complete assignments, and they may get assistance from math tutors. Tutors will not solve all of your problems or sit with you for extended periods of time, but they will help guide you so that you can complete your work independently. No appointment is necessary. The hours of operation are Monday through Thursday 9:00am to 8:00pm, and Fridays 9:00am to 3:00pm. Limited hours are available during final exams. The MLL is closed during all holidays and breaks. For more information, go to http://www.uab.edu/cas/mathematics/mll. Please note that all computer use in the MLL is monitored.

The University Academic Success Center (UASC) provides students with a host of free services and resources that include Tutoring and Supplemental Instruction. For more information, go to http://www.uab.edu/students/academics/student-success.

Calculator policy. Handheld calculators maybe 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. The Windows on-screen scientific calculator must be used 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 Windows on-screen calculator before you have to take a test.

Course Grades: Students earn their grade in the course by accumulating points. There is a maximum of 1001 points available. Student letter grades are awarded as shown in the following tables. Students should go to https://secure.cas.uab.edu/mll/db/ to review the status of their grades in the course. Note that grades are awarded by points earned, not by percentages.

<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>7</td>
<td>13</td>
<td>91</td>
</tr>
<tr>
<td>Participation points</td>
<td>5</td>
<td>13</td>
<td>65</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10</td>
<td>13</td>
<td>130</td>
</tr>
<tr>
<td>MLL attendance</td>
<td>5</td>
<td>13</td>
<td>65</td>
</tr>
<tr>
<td>Tests</td>
<td>100</td>
<td>4</td>
<td>400</td>
</tr>
<tr>
<td>Final Exam</td>
<td>250</td>
<td>1</td>
<td>250</td>
</tr>
<tr>
<td>Total points</td>
<td></td>
<td></td>
<td>1001</td>
</tr>
</tbody>
</table>

Homework: There are 13 homework assignments containing the necessary tools to help you to learn each topic. For each assignment you can earn up to 7 points, based on your homework score. **Since this is the learning stage, you are expected to work on each assignment until it is 100% complete.** 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. 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 of your work is automatically saved). You earn points when your homework is 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 13 class meetings. For each class meeting that you attend you will earn 5 participation points, provided attendance requirements on page 2 are met. 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 13 quizzes. Each quiz is worth 10 points. Quizzes must be taken on or before the deadline date. **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 13 lab meetings. For each lab meeting that you attend, you will earn 5 points, provided attendance requirements on page 2 are met. 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 press CTRL-ALT-DELETE to log on to the UAB network with your Blazer ID and password. You will then enter BlazerNet and click on the link for MyMathLab Plus. After you finish your work in the MLL you should log off and press CTRL-ALT-DELETE to exit.
Tests: There are four major tests to be taken. Tests will be taken in Heritage Hall 202 during scheduled lab meeting times. You are allowed up to 50 minutes on each test. **Students are required to keep a government issued photo ID on their desks during testing (UAB student ID, driver’s license, etc.).**

The only grade component which can be made up is a test.

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. The only grade component which can be made up is a test. If you know that you will have to miss a test for official university business or another verifiable circumstance, it is best to discuss this with your instructor in advance. If a major test is missed due to an unforeseen, serious and 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 will take the final exam in the MLL just as they take the major tests. The final exam will be given on **Friday, April 28, 2017 at 8:00 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 and laptops must be **turned off** and **put away** during all class meetings. In the MLL, cell phones must be **turned off and placed in your book bag, not your pocket, during testing.**

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 special accommodations to students who qualify. The UAB DSS website is [www.uab.edu/dss](http://www.uab.edu/dss), 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.

Withdrawal: The last day for withdrawing from this course without the payment of full tuition and fees is **June 12, 2017.** The last day to withdraw from this course with a grade of W is **July 7, 2017.** Students may withdraw from a course online using BlazerNet or by completing the appropriate forms in the UAB Registrar’s Office. Permission of the instructor is not required.
DEADLINE DATES

The Syllabus Quiz is the only prerequisite for the graded assignments.

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.)

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).

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Sections</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW1/Q1</td>
<td>2.1, 2.4, 2.5</td>
<td>6/9</td>
</tr>
<tr>
<td>HW 2/Q2</td>
<td>2.6, 2.7, 3.1, 3.2, 3.3</td>
<td>6/12</td>
</tr>
<tr>
<td>HW3/Q3</td>
<td>3.4, 3.6</td>
<td>6/16</td>
</tr>
<tr>
<td>HW4/Q4</td>
<td>4.1, 4.3</td>
<td>6/19</td>
</tr>
<tr>
<td>HW5/Q5</td>
<td>5.1, 5.2, 5.3</td>
<td>6/23</td>
</tr>
<tr>
<td>HW6/Q6</td>
<td>5.4, 5.5, 5.6</td>
<td>6/26</td>
</tr>
<tr>
<td>HW7/Q7</td>
<td>5.7, 6.1, 6.2</td>
<td>6/30</td>
</tr>
<tr>
<td>HW 8/Q8</td>
<td>6.3, 6.4</td>
<td>7/07</td>
</tr>
<tr>
<td>HW9/Q9</td>
<td>6.5, 7.1</td>
<td>7/10</td>
</tr>
<tr>
<td>HW10/Q10</td>
<td>7.2, 7.3</td>
<td>7/14</td>
</tr>
<tr>
<td>HW11/Q11</td>
<td>7.4, 7.5</td>
<td>7/17</td>
</tr>
<tr>
<td>HW12/Q12</td>
<td>7.6, 7.7</td>
<td>7/21</td>
</tr>
<tr>
<td>HW13/Q13</td>
<td>8.1, 8.2</td>
<td>7/25</td>
</tr>
</tbody>
</table>

** Note that each homework assignment is worth 7 points and each quiz is worth 10 points.

<table>
<thead>
<tr>
<th>Test</th>
<th>Related Q/Quiz Assignments</th>
<th>Points</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>HW 1-3; Q 1-3</td>
<td>100</td>
<td>6/20</td>
</tr>
<tr>
<td>Test 2</td>
<td>HW 4-6; Q 4-6</td>
<td>100</td>
<td>6/27</td>
</tr>
<tr>
<td>Test 3</td>
<td>HW 7-10; Q 7-10</td>
<td>100</td>
<td>7/18</td>
</tr>
<tr>
<td>Test 4</td>
<td>HW 11-13; Q 11-13</td>
<td>100</td>
<td>7/27</td>
</tr>
<tr>
<td>Final Exam</td>
<td>HW 1-13; Q 1-13</td>
<td>250</td>
<td>8/3</td>
</tr>
</tbody>
</table>