MATH 100: Introduction to Algebra – Lecture/MML

Instructor: Sarah Garde
Email: sgarde@unm.edu
Office: LRC-172
Phone: 925-8912

<table>
<thead>
<tr>
<th>Section</th>
<th>Class Time</th>
<th>Meeting Days</th>
<th>Location</th>
<th>MML Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>501</td>
<td>9:00 AM – 10:40 AM</td>
<td>Mon/Wed</td>
<td>B-118</td>
<td>Garde64964</td>
</tr>
</tbody>
</table>

OFFICE HOURS: Monday through Thursday 8 - 8:45 AM or by appointment.

COURSE DESCRIPTION: Topics include linear equations, polynomials, factoring, formulas, graphing, and application problems and includes a skills laboratory. Prerequisites/placement: Successful completion of Math 099 (RA, RB, RC or RCR), Math011/012, or a minimum pre-algebra COMPASS score of 36, or math ACT score of 16.

COURSE STUDENT LEARNING OUTCOMES:
Upon successful completion of the course, students will be able to:
1. Add, subtract, multiply, and divide positive and negative numbers, including integers, fractions, and decimals.
2. Use the correct order of operations when simplifying a numerical expression.
3. Solve linear equations in one variable.
4. Solve word problems involving linear equations in one variable.
5. Solve simple linear inequalities.
6. Graph simple linear equations.
7. Calculate the slope of a line between two points.
8. Find the equation of a line from pairs of points or a point and a slope.
9. Simplify expressions with integer exponents.
10. Use Scientific Notation in elementary arithmetic calculations.
11. Add, subtract, multiply, and divide polynomials.
12. Factor simple polynomials.

COURSE MATERIALS:
- MyMathLab (MML) Student Access Code: The code is available for purchase in the UNM-VC Bookstore or online at [http://www.mymathlab.com/](http://www.mymathlab.com/). You must purchase MML by the end of the 3rd week of classes or risk being dropped from the course.
- Math 100 (Beginning Algebra) Workbook for Lecture Class (First Edition, August 2015). This is available for purchase in the bookstore.
- 3-Ring binder (1-1/2 inch), 4 divider tabs, spiral, notebook paper, pencil, eraser, dry erase marker, 3X5 note cards
  Tabs: (1) Syllabus Math021/022/References, (2) Class Notes/MML Work, (3) Outside Resources, (4) Assessments
  MATH 193: 4 additional tabs are needed for that class. Refer to Math 193 Syllabus.
- Notebook paper, graph paper, pencil, eraser, dry erase marker, 3 X 5 notecards
- Scientific calculator (Calculators on electronic devices are NOT allowed, e.g., phone, IPAD, etc.)

IMPORTANT DATES with respect to this class:
- Last date to drop without a grade: Friday, February 5, 2016
- Last date to drop without approval of Director of Student Affairs: Friday, April 15
- Final Exam: Wednesday, May 11 9:00 – 11:00 AM

GRADING SCALE:
While you will receive credit toward establishing a full-time load for financial aid purposes for Math 100, this course is NOT accepted to satisfy UNM core degree requirements. Students in this course will receive the following grades:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
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<tbody>
<tr>
<td>RA+</td>
<td>98% and above</td>
</tr>
<tr>
<td>RA</td>
<td>93 – 97%</td>
</tr>
<tr>
<td>RA-</td>
<td>90 – 92%</td>
</tr>
<tr>
<td>RB+</td>
<td>88 – 89%</td>
</tr>
<tr>
<td>RB</td>
<td>83 – 87%</td>
</tr>
<tr>
<td>RB-</td>
<td>80 – 82%</td>
</tr>
<tr>
<td>RC+</td>
<td>78 – 79%</td>
</tr>
<tr>
<td>RC</td>
<td>72 – 77%</td>
</tr>
<tr>
<td>RNC</td>
<td>&lt; 72%</td>
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PREREQUISITES/PLACEMENT:
Successful completion of Math 099 (RA, RB, RC or RCR), Math011/012, or a minimum pre-algebra COMPASS score of 36, or math ACT score of 16.
GRADE WEIGHTINGS:

- Attendance, Class Participation: 25%
- Binder: 5%
- Homework/Labs: 20%
- Tests: 20%
- Cumulative Final Exam*: 30%

*Students must receive a minimum of 70% on the final exam to pass the course. This is not negotiable.

COURSE COMPONENTS:

1. Attendance/Class Participation (25% of grade)
   - You are expected to be on time to each class and stay the entire class, have the necessary course materials on hand, and participate in the lecture and/or group activities to receive full credit for attendance each day.
   - If you miss two classes in the first two weeks of the semester, or 4 classes total you will be dropped from the class. You are required to attend class twice a week. This is a co-requisite class with M193. If you are dropped from one of these classes, you will be dropped from the other. (That is a total of 6 credit hours).
   - The attendance sheet will only be available BEFORE class. Class begins promptly at 9:00. You will be marked absent if: (1) you are absent, (2) you are tardy and/or leave early twice, and/or (3) you are disruptive to the learning environment.
   - If absent or tardy, the student must email the instructor. The student bears full responsibility for the material and procedural information covered in class.
   - You will be working in the Math 100 Workbook during class and will be graded periodically on that work as part of your Class Participation grade.

2. Binder (5% of grade) (Also used in Math 193 – other sections to be specified by Math 193 instructor)
   - **Section 1: Syllabus Math 100/References.** This will include course syllabus and other materials used for planning/organizing purposes.
   - **Section 2: Math 100 Notes/MML Work.** This will include Problems of the Day, lecture notes and any supplementary notes given. All pages must be labeled with the date, unit, chapter, topic and lesson. The student must take meaningful notes during the instruction portions of the class. Students without notes will be told to revisit the lesson before assistance will be provided.
     - This will include MML Homework, as well as any labs or other work done during class. Assignments will be labeled with the date, unit, chapter, topic and lesson. Problems must be worked in a neat, orderly manner in the notebook in the appropriate section of the binder.
   - **Section 3: Outside Resources.** This includes definitions of terms introduced during lecture or in MML, formulas, summary of key concepts, note cards prepared for tests, progress reports, etc.
   - **Section 4: Assessments.** This will include both practice and actual tests/quizzes, as well as any corrections done to them. Problems must be worked in a neat, orderly manner on tests and quizzes.
     - *Keep Math 100 Workbook in the back of your binder.*

3. Homework/Labs (20% of grade)
   - Homework is assigned every week. Weekly assignments in MML must be completed no later than midnight on Tuesday of the next week for full credit. A 10% penalty will be incurred if your homework is late. You will be able to go back to improve your grade after the due date. You must earn at least 80% on homework to pass the class.
   - Labs not contained in MML will be due no later than the following Wednesday.

4. Tests (20% of grade)
   - Several tests will be assigned during the term. Students are expected to show their work clearly in the supporting documentation for the tests. A 3” X 5” note card (both sides) will be allowed to be used on tests.

You are allowed to make corrections to tests to improve the grade. In order to earn back up to half the points missed, corrections need to be made on a separate sheet of paper. The correction paper is vertically divided in half:
The problem must be reworked on the LEFT side of the paper, and the RIGHT side must contain your verbal explanation of what was done incorrectly on the test for that particular problem.

5. **Final Exam (30% of grade)**
   - The final exam is a MANDANTORY cumulative written exam taken on Wednesday, May 11.
   - An instructor pre-approved 3” X 5” note card (both sides) with only formulas will be allowed.
   - A scientific calculator, which is NOT a graphing calculator, will be allowed.
   - No cell phones or Internet devices will be permitted to be used or out during the exam.
   - **You MUST PASS this exam with 70% or higher to pass this course.**
   - Final review and practice problems will be made available before the final exam.

**SUPPORT SERVICES:** Highway to Success tutors are available Monday through Thursday from 8 to 5, and Fridays from 8 to 2 in The Learning Center. The online tutor, Ryan Baltunis, can be reached at 925-8553 or found in LRC 118.

**EXPECTATIONS:** Students are expected to conduct themselves in a polite, courteous, professional and collegial manner. Cell phones must be set on silent. Please step into the hall if you need to take a call during class. Cell phones must be turned off during exams. ABSOLUTELY NO FOOD OR DRINK is allowed in the labs.

In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants (TA), and Graduate Assistants (GA) are considered responsible employees. This designation requires that any report made to a faculty member, TA, or GA regarding sexual misconduct or gender discrimination must be reported to the Office of Equal Opportunity and the Title IX Coordinator. For more information on the campus policy regarding sexual misconduct, see: [https://policy.unm.edu/university-policies/2000/2740.html](https://policy.unm.edu/university-policies/2000/2740.html)

**DISABILITY STATEMENT:** If you have a documented disability, please provide me with a copy of your letter from Equal Access Services as soon as possible to ensure that accommodations are provided in a timely manner. The Equal Access Office can be reached at 925-8510.

**UNM’S POLICY ON ACADEMIC HONESTY:** Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, including dismissal, against any student who is found responsible for academic dishonesty. Any student who has been judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course. Academic dishonesty includes, but is not limited to, dishonesty in quizzes, tests or assignments, claiming credit for work not done or done by others; hindering the academic work of other students; and misrepresenting academic or professional qualifications within or outside the University.
<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Learning Objective(s)</th>
<th>Blitzer (6th Edition)</th>
<th>Assignments Due Date</th>
<th>Tests/Final</th>
</tr>
</thead>
</table>
| 1    | 1/20 – 1/24 | 1. Add, subtract, multiply, and divide positive and negative numbers, including integers, fractions, and decimals. | L1.1 Intro to Algebra  
L1.2 Fractions  
L1.3 The Real Numbers  
L1.4 Basic Rules of Algebra | MML/WB (1/26)          |             |
|      |             | 2. Use the correct order of operations when simplifying a numerical expression. | L1.5 Addition of Real Numbers  
L1.6 Subtraction of Real Numbers  
L1.7 Mult & Div of Real Numbers  
L1.8 Exponents and Order of Operations | MML/WB (2/02)          |             |
| 2    | 1/25 – 1/31 | 3. Solve linear equations in one variable.                          | L2.1 Add Prop of Equality  
L2.2 Mult Prop of Equality  
**Practice Test #1**       | MML/WB (2/10)          |             |
| 3    | 2/01-2/07   | 4. Solve word problems involving linear equations in one variable.  | L2.3 Solve Linear Equations  
L2.4 Formulas and Percents | MML/WB (2/16)          | **Test #1** On 2/10 (L1.1 – 2.2) |
| 5    | 2/15 – 2/21 | 5. Intro to linear inequalities                                    | L2.5 Intro to Problem Solving  
L2.6 Geometry Problem Solving  
L2.7 Solving Linear Inequalities | MML/WB (2/23)          |             |
| 6    | 2/22- 2/28  | Solve word problems involving linear equations in one variable     | L4.4 Mixture/Motion Problems (Modified to one variable)  
**Practice Test #2**       | Handout (03/01)         |             |
| 7    | 2/29 – 3/06 | 6. Graph simple linear equations.                                   | L3.1 Graphing Linear Equations in Two Variables  
L3.2 Graphing Linear Equations Using Intercepts | MML/WB (3/08)          | **Test #2** (Mid-Term) On 3/02 (L2.3 – Mixture/Motion Problems) |
| 8    | 3/07 – 3/13 | 7. Calculate the slope of a line between two points.               | L3.3 Slope (incl. parallel & perpendicular) | MML/WB (3/16)          |             |
| 9    | 3/14 – 3/20 | SPRING BREAK                                                       |                                        |                       |             |
| 10   | 3/21-3/27   | 8. Find the equation of a line from pairs of points or a point and a slope. | L3.4 Slope-Intercept  
L3.5 Point-Slope & Modeling | MML/WB (3/29)          |             |
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<th>Tests/Final</th>
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<tbody>
<tr>
<td>11 3/28-4/03</td>
<td>9. Simplify expressions with integer exponents. 10. Use Scientific Notation in elementary arithmetic calculations.</td>
<td>L5.7 Negative Exponents and Scientific Notation</td>
<td>MML/WB (04/05)</td>
<td>Test #3 on 04/06 (L3.1-L3.5, L5.7)</td>
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<tr>
<td>12 04/04 –04/10</td>
<td>11. Add, subtract, multiply, and divide polynomials.</td>
<td>L5.1 Add/Subtract Polynomials L5.2 Multiply Polynomials L5.3 Special Products</td>
<td>MML/WB (04/12)</td>
<td></td>
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<tr>
<td>13 04/11-04/17</td>
<td>12. Factor simple polynomials.</td>
<td>L5.4 Polynomials in Several Variables L5.5 Dividing Polynomials</td>
<td>MML/WB (04/19)</td>
<td></td>
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<tr>
<td>14 04/18-04/24</td>
<td>12. Factor simple polynomials.</td>
<td>L6.1 GCF/Factoring by Grouping L6.2 Factoring Trinomials LC=1 L6.3 Factoring Trinomials LC &gt;1</td>
<td>MML/WB (04/26)</td>
<td>Test #4 on 04/27 (Ch 5 &amp; Ch 6)</td>
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<tr>
<td>15 04/25-05/01</td>
<td></td>
<td>L6.4 Factoring Special Forms L6.5 General Factoring Strategy</td>
<td>MML/WB (05/03)</td>
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<tr>
<td>16 05/02-5/07</td>
<td></td>
<td>Cumulative Review</td>
<td>Mock Final</td>
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<td>17</td>
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<td></td>
<td>Final on 05/11 (Cumulative)</td>
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