

Math 120-503 A125

Mondays and Wednesdays 12:00-2:45 PM
Summer 2017

Instructor: Kaylee Thomas

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Office: Cubicles in Main Office (23)

Office Hours: 2:45-3:15 (right after class)

MyMathLab Course Code: thomas52412

COURSE DESCRIPTION: Math 120 covers linear equations and inequalities, polynomials, factoring, exponents, radicals, fractional expressions and equations, quadratic equations, perimeters, areas of simple geometric shapes, and logarithms. There is an emphasis on problem solving skills. Math 120 is acceptable as credit toward graduation in some programs but not acceptable to satisfy the UNM Core Curriculum or New Mexico Lower-Division General Education Common Core Curriculum requirement in Mathematics. Grade option: A, B, C, CR/NC. Prerequisites/placement: Successful completion of MATH 100 (C or CR) or minimum Pre-Algebra COMPASS score of 57 or Algebra COMPASS score of 34, or math ACT ≥ 19 , or math SAT ≥ 450 .

COURSE OBJECTIVES: In this course, we will explore linear functions, systems of linear equations, inequalities, polynomials and factoring, rational functions and radical functions, and we will introduce exponential and logarithmic functions. This course will seek a balance of practicing the methods in both theoretical and applied settings.

COURSE MATERIALS:

- Textbook (*Hardcopy Optional*): Intermediate Algebra by Jay Lehman (I have the 4th Edition.)
- **Pearson (MyMathLab) Student Access Code:** This code will provide you access to all of the online materials for the course that will be required for the course. If you purchased a new book at the bookstore, it should have come with a MML kit that includes your access code. If you did not purchase a new book, then you can purchase a code directly from the website, www.pearsonmylabandmastering.com. **You must register for MML by midnight on Tuesday, June 6, 2017** or you will begin missing assignments. (See MML registration handout for assistance. *Note: You can get a 14 day trial period to begin completing work if you cannot immediately purchase the course code.*)
- Notebook, pencil, calculator: Note: A scientific calculator is desired. Students may use a calculator unless otherwise announced. Graphing calculators and/or phones will not be allowed on quizzes or exams. Students may not share a calculator during exams.

GRADES:

A 90 – 100%
B 80 – 89%
C 70–79%
D 60–69%
F < 59%

CR Credit 72 – 100%
NC No Credit < 72%

In-Class Quizzes: 15%

In-Class Assignments: 10%

MML/Written Homework: 20%

Midterms (2): 30%

Cumulative Final Exam* 25%

***You must receive at least a 70% on the final and have a 72% overall course average to pass the course. This is not negotiable. I will try to keep grades up to date on Blackboard. If your grade is dipping below a 75%, I will STRONGLY encourage you to attend office hours after every class period.**

IMPORTANT DATES:

- Register for MML by midnight on **Tuesday, June 6, 2017**
- Midterms: Monday, June 19 and Wednesday, July 5 (second half of class)
- Last date to drop without a grade: Friday, June 16 2017
- ****We DO have class Monday, July 3** (UNM is closed July 4.)**
- Final Exam: Last day of class (July 26, 2017)

THE COURSE:

- Homework, Quizzes, and Tests: We will cover nearly the entire book. Please note that the book and MML are not perfectly aligned.
- You must register for MML by midnight Tuesday, January 6, 2017. There will be MyMathLab assignments every class, due before the start of the next class.
- Written Homework: There may be additional written homework assignments.
- Late work will be reduced by 25%.
- MML Homework: Please check there for homework after each class. This class moves quickly. At least one new topic will be covered and a new homework assignment will be applicable to every class. All tools will be available for your use.
- Short written and/or electronic quizzes will be given at the end of each class. Quizzes cannot be made up but the 2 lowest scores will be dropped. A calculator will be allowed for the quizzes. No phone calculators will be allowed on the quizzes.
- Optional (but highly recommended) Practice Tests will appear in Blackboard Learn as exams approach. The actual exams will be written and closed book. A 3x5 card with the pertinent information and a calculator will be allowed for the exams. No phone or graphing calculators will be allowed on the exams.
- Tests may NOT be taken late. If you must miss a test, be sure to schedule a time to take it BEFORE missing the class.

ATTENDANCE POLICY: The student bears full responsibility for the material and procedural information covered in class. Missing class requires extra time to learn the missed material on your own, or at scheduled office hours. Additionally, any assignments not turned in on time (*even if the student is absent*) will be reduced 25%. Finally, each day there will be at least one graded activity in class. If absent, you will miss this work. If a student misses too many classes, the student may be dropped from the class.

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 and refrain from texting. Cell phones must be turned off and out of sight during exams.

SUPPORT SERVICES: The Valencia Campus Library provides a quiet atmosphere for study and is an excellent resource for supplementary materials. Audiotapes and videotapes are available for student use through the library. **The new Learning Commons (925-8907) and STEM Center (925-8515) offer math & science tutoring at no cost to the student.** The Writing Center can provide free help with all written assignments (For Writing Center appointments email gillikin@unm.edu or call 925-8513). Students who miss tutoring appointments may be denied future appointments.

UNM EMAIL/BLACK BOARD LEARN ACCESS: Beginning Fall 2015 semester, all UNM-Valencia students will need a UNM Net ID which can be created by going to: <http://it.unm.edu/accounts/>. UNM Net ID will give you access to the computer labs on campus, blackboard learn and UNM Email.

COMPUTER LAB RESPONSIBILITY: Please be advised that use of computer labs on UNM properties is governed by “Policy 2500: Acceptable Computer Use” which can be found at <http://policy.unm.edu/universitypolicies/2000/2500.html>. Food and drink are also prohibited in any computer lab on campus. Anyone violating these policies is subject to possible suspension and loss of computer lab privileges.

DISABILITY STATEMENT: Please contact Equal Access Services (925-8510) as soon as possible to ensure that documented disability accommodations can be provided in a timely manner. TITLE IX: In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered “responsible employees” by the Department of Education (see pg 15 - <http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf>). This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu). For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/universitypolicies/2000/2740.html>

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.

Student Learning Outcomes in regard to skills acquisition:

Upon successful completion of this course, students will be able to:

1. Sketch the graphs of linear, quadratic, and exponential functions.
2. Solve systems of two linear equations.
3. Solve quadratic equations using factoring, quadratic formula, and the square root method.
4. Solve equations containing rational expressions.
5. Perform operations on polynomials and factor certain types of polynomials.
6. Solve polynomial equations by factoring.
7. Correctly use function notation and vocabulary related to functions.
8. Find the value of a function for a given domain value.

Student Learning Outcomes in regard to conceptual understanding:

Upon successful completion of this course, students will be able to:

1. Interpret slope in relation to variable coefficients and as a rate of change.
2. Apply solution methods learned to “real-world” problems.
3. Analyze solutions and give them contextual meaning.
4. Make connections between graphic, algebraic, and contextual representations.

Schedule of Topics & Exams (Subject to Change)

Week	Dates	Topics	Additional Information
1	6/5 and 6/7	Review Linear Equations: Writing and Graphing Linear Equations & Functions	
2	6/12 and 6/14	Systems of Equations: Solve by Graphing, Substitution and Elimination Word Problems and Linear Inequalities	
3	6/19 and 6/21	Review and Exam 1 Exponents	Exam 1 6/19
4	6/26 and 6/28	Inverse Functions and Logarithms Discovering Polynomials	
5	7/3 and 7/5	Factoring Polynomials Review and Exam 2	**THERE IS CLASS 7/3** Exam 2 7/5
6	7/10 and 7/12	Graphing and Solving Polynomials Solving Polynomials	
7	7/17 and 7/19	Rational Equations Radical Equations	
8	7/24 and 7/26	Review Review and Final Exam	Final Exam 7/26