# Math 120: Intermediate Algebra – Dual Credit
# Fall 2018
# SYLLABUS

**Instructor:** Mychael Smith **Office:** Academic Bldg. Room 142-A

**Office Hours**:

- In Office: MTW: 9:30-11:30;
- LRC: TR: 10:00-11:00
- Other hours by appointment

**Contact Information:**

- Phone: 925-8644 (My office), 925-8600 (Academic office)
- email: mysmith@unm.edu or send a message in BbLearn. I will check email Monday through Friday afternoon unless I am out of town. Expect a response within 24 hours to email messages sent Sunday afternoon through Thursday evening. If you send me a message on Friday afternoon through Sunday I may not see it until Monday.

**Course Prerequisites:**
Placement score for Math 120 on the Compass Test or appropriate ACT score.
Must also have required high school GPA.

**Course Objectives:** You will explore linear functions, linear equations, using lines to model data, making predictions, systems of linear equations, inequalities, polynomials and factoring, rational functions, radical functions, quadratic functions, and an introduction to exponential and logarithmic expressions and functions.

**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, exponential and logarithmic functions.
2. Find equations of linear models and model data using lines.
3. Solve systems of two linear equations, use graphs and tables to solve systems, and use systems to model data.
4. Factor polynomials.
5. Solve quadratic equations using factoring, quadratic formula, and the square root property.
6. Solve equations containing rational expressions.
7. Solve radical equations.
8. Correctly use function notation and vocabulary related to functions.

**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. Communicate or present mathematical concepts in writing and/or orally.

**Required Materials:**

- Textbook: You will use the textbook from your high school math class. You will also have mini-projects and projects. You will do assigned readings and answer questions based on the readings.

- Blackboard Learn: This is the program we will use for communication. Be sure to check in regularly for messages and projects. You will need a UNM Net ID to access Learn.

- Scientific Calculator: You will be allowed to use a *scientific* calculator, but not a *graphing* calculator on the midterm and final exams so it is a good idea to use one during the entire semester.

**Grade:** These are the components that will make up your overall course grade:

| | |
|---|---|
| • High school grades | 100 points |
| • Projects graded by your teacher | 100 points |
| • Mini-Projects | 50 points |
| • Reading Questions | 50 points |
| • Midterm Exam | 100 points |
| • Final Exam | 200 points |
| • Two Dual Credit Projects | 100 points |
| • Total | 700 points |

**You must score at least a 70% on the final exam to earn a passing grade in the course. You must also have an overall course average of at least a 70% for a passing grade in the course.**

**Midterm and Final Exams:** You will need to take a midterm exam, given in October and a final exam. These exams will *not* be on the computer; they will be pencil and paper exams. You may view the midterm as a practice for what to expect the final to be like. The final will be cumulative and you must score a 70% or more on the final to pass the course.

**Support:** If you are struggling in this course, do not be afraid to ask for help. It is well known that in order to succeed in a college-level course, you will need to spend two to three hours outside of class on coursework for every hour spent in class. This means you should set aside eight (8) hours outside of class EACH WEEK to work on assignments.

- Free Tutoring: The Learning Center and the STEM Center at Valencia campus provide free tutoring and open labs. Call 505-925-8900 or 505-925-8515 for more information and tutoring appointments. You can also check online at http://www.unm.edu/~tutor/
- Office Hours: Times for my office hours are posted on this syllabus. If you need help with anything, *please email me.*

**Other Important Information:**

- Equal Access: 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 your accommodations are provided in a timely manner. It is up to you to obtain documentation of a disability by contacting Equal Access Services. I will not guarantee accommodation without the appropriate documentation.

- Academic Dishonesty: Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. 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.

- Copying from the Internet: I have no problem with you consulting the Internet for answers, but be sure those answers actually apply to the question you've been asked. Also, don't just copy down answers given you by an Internet website; it won't be there for you to consult on the midterm or final exam.