Mesa Community College Mathematics Department  
Mat 120 Intermediate Algebra  
Section #18241  
Summer, 2010

Instructor: Mr. David Schultz  
Office: MC 187 message 480-461-7847 email: dschultz@mail.mc.maricopa.edu  
Webpage: www.mc.maricopa.edu/~dschultz/  
Office Hours: MTWTH by appointment  
Class Location: AS-193  
Class Time MTWR 7:00 – 9:00 am  
Start Date: 6/1  
End Date: 7/22


Prerequisites: A grade of “C” or better in MAT 090 or 092, or satisfactory score on placement exam.

Attendance: Any student who misses more than 3 class periods will be withdrawn from the class and will earn a grade of W, Y, or F. If you must miss a class make sure you leave a phone message or email for me. The school handbook has a list of official absences and I suggest you review them carefully. Leaving the class early constitutes an absence.

Tardies: I expect you to be on time with all necessary supplies. Attendance will be taken 5 minutes into the class and again after the 5 minute break.

Homework: Homework will not be collected but it is strongly suggested that you do all the listed problems and find out how to do the ones you are not sure about. We will reserve a little time for some questions, however, due to the speed of the course you will need to seek help outside of class. Solutions to the bolded problems will be provided.

Tests: Make-ups are granted only in extreme cases and must be done in the Testing Center. There will be a heavy emphasis on algebraic methods of solution. There will be only an occasional usage of a scientific calculator, otherwise, all work is done by hand.

Dishonesty: Dishonesty of any kind will result in no credit given for the work and you will be subject to the appropriate school policies as outlined in the student handbook.

Final Exam: The final exam is cumulative in nature and it must be taken at the assigned time. There will be no make-ups on the final exam. The final exam for this class is July, 22nd at 7:00 am.

Grading Scale:  
100% - 90%  A  
89% - 80%  B  
79% - 70%  C  
69% - 60%  D  
59% - 0%  F

Grading Weights:  
Chapter Tests 80%  
Semester Exam 20%

Note: Refer to the student handbook for other grading options.
Special Needs Students: Any student who has been identified as requiring special assistance must have the appropriate forms on record at student services and must notify me as soon as possible so that I may best help you to be successful in this class. If you have questions call the Student Services Office at (480) 461-7447.

My Expectations of You: Intermediate Algebra requires both dedication to the learning of the topics and a strong desire to know not only the how but also the why. It is a challenging topic and lays the foundation for all further math classes. It takes discipline and a willingness to work lots of problems. You should

1. Read each section ahead of time.
2. Complete the homework problems to the best of your ability.
3. Get help on those problems you do not understand!
4. Take good notes (they’ll come in handy in the future).
5. Be on time and come with an attitude of curiosity and scholarship.
6. Be able to defend all conclusions through algebraic methods.
7. Out of courtesy to both the instructor and your peers please turn off all pagers and cell phones.
8. Make sure your work is neat and concise. If I can’t read it or understand your flow of thoughts it will be given a score of zero.
9. Be honest with yourself about your ability to commit the necessary time requirements and act on your conclusions early on in the class.

My Commitment to You: I will provide timely feedback on your tests. I will also present the various topics using various delivery modes and will challenge you to utilize the most current and sophisticated technology.

Required Supplies: You must have at least a scientific calculator and I also require work to be done in pencil not pen.

Intermediate Algebra
Quadratic, rational, radical, exponential, and logarithmic functions and equations; graphs of quadratic, exponential, and logarithmic functions; equations quadratic in form; operations on rational expressions, radical expressions, and complex numbers; rational exponents; applications. Prerequisites: Grade of "C" or better in MAT090, MAT091, MAT092, MAT093, or equivalent, or a satisfactory score on the District placement exam.

Course Note: May receive credit for only one of the following: MAT120, MAT121, or MAT122.

MCC Early Alert Program (EARS)
Mesa Community College is committed to the success of all our students. Numerous campus support services are available throughout your academic journey to assist you in achieving your educational goals. MCC has adopted an Early Alert Referral System (EARS) as part of a student success initiative to aid students in their educational pursuits. Faculty and Staff participate by alerting and referring students to campus services for added support. Students may receive a follow up call from various campus services as a result of being referred to EARS. Students are encouraged to participate, but these services are optional. Early Alert Web Page with Campus Resource Information can be located at: http://www.mesacc.edu/students/ears

MCCCD Official Course Competencies:
MAT120  20036-99999 Intermediate Algebra

1. Use function notation. (I, II, III, IV)
2. Solve quadratic equations by factoring, completing the square, and the quadratic formula. (I)
3. Solve equations quadratic in form. (I)
4. Solve rational and radical equations. (II, III)
5. Perform operations on complex numbers. (III)
6. Perform operations on radical and rational expressions. (II, III)
7. Simplify radical and rational expressions. (II, III)
8. Simplify expressions involving rational exponents. (III)
9. Graph quadratic, exponential, and logarithmic functions. (I, IV)
10. Identify the domain of quadratic, rational, radical, exponential, and logarithmic functions. (I, II, III, IV)
11. Rewrite logarithmic expressions using the properties of logarithms. (IV)
12. Evaluate formulas involving exponential or logarithmic expressions. (IV)

MCCCD Official Course Outline:

MAT120  20036-99999 Intermediate Algebra

I. Quadratic Functions
   A. Quadratic equations
   B. Graphs of quadratic functions
   C. Equations quadratic in form
   D. Applications
II. Rational Functions
   A. Operations on rational expressions
   B. Rational equations
   C. Applications
III. Radical Functions
   A. Operations on radical expressions
   B. Operations on complex numbers
   C. Rational exponents
   D. Radical equations
   E. Applications
IV. Exponential and Logarithmic Functions
   A. Evaluation of expressions
   B. Graphs of exponential and logarithmic functions
   C. Applications