

# MAT 122 Intermediate Algebra

## Syllabus – Summer 2008

**INSTRUCTOR:** Jenifer Bohart

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**CLASS TIME and LOCATION:**

Title	Section	Days	Time	Location	Campus
MAT122	11873	MTWTh	9:45 – 11:45	472	SCC Main

**TEXTBOOK:** *Mathematics in Action: Algebraic, Graphic and Trigonometric Problem Solving – 2<sup>nd</sup> Edition.* Consortium for Foundation Mathematics. Pearson Addison Wesley. You MUST bring this book with you to class every day.

**COURSE DESCRIPTION:** 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.

**OFFICIAL COURSE COMPETENCIES:**

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

**PREREQUISITES:** Grade of "B" or better in MAT090, MAT091, or MAT092, or equivalent or satisfactory score on District placement exam.

**CALCULATORS:** A graphing calculator is required for this course. I will use the TI-84 in class. Users of other calculators will be expected to learn how to use them without SCC's help, and can expect frequent incompatibilities and frustration. Calculators with QWERTY keyboards or those which do symbolic algebra such as TI-92s and TI89s **may not** be used during class activities, quizzes or tests.

**COMPUTER ACCESS AND EMAIL ADDRESS:** You will need regular access to a PC computer in order to complete the online homework for this course. You will also need a working email address. If you don't have a computer at home, you may work in the SCC computer lab located in BU133. You may also use the computers in the Math/Science Tutoring Center CM441.

**OTHER REQUIRED MATERIALS:** #2 Pencil with Eraser  
Loose-leaf notebook paper  
Graph paper

<b>GRADING:</b>	<u>Point Allocation</u>	<u>Grading Scale</u>
	20% Quizzes	A 90% - 100%
	Class Participation	B 80% - 89%
	HW Completion	C 70% - 79%
	15% Online Homework	D 60% - 69%
	50% Chapter Tests (4)	F 0% - 59%
	15% Final Exam	

**ATTENDANCE:** Yes, attendance will be taken every day. You are expected to be prepared, be on time, stay on task, participate in group/class discussions, and stay the full length of class. Otherwise, you will be marked absent. Being prepared means having the proper materials with you when you arrive in class: textbook, graphing calculator, pencil, notebook paper, and graph paper. If you have a legitimate reason to be late or leave class early, let the instructor know before the start of class. **You** are responsible for all missed notes, concepts and assignments if you miss class. Check with your classmates for anything you may have missed. I will not spend class time going over material you have missed due to an absence. If your absence is excused, you must notify me before missing class in order to make up the points missed. You may be dropped after **two** unexcused absences.

**QUIZZES:** Short quizzes will be given regularly, and will reflect recent assignments and class work. This includes in-class, group and take-home quizzes. These quizzes may be given at any time during the class period. If you arrive in class late, leave early, or are absent, these quizzes cannot be made up.

**PARTICIPATION:** These points will be given for work done and/or presented in class. You will be graded on presentation style as well as correctness. If you arrive in class late, leave early, or are absent, these points cannot be made up.

**ONLINE HOMEWORK:** Homework assignments for this class are located online using MyMathLab/CourseCompass. *You must have access to a PC computer in order to work these problems.*

**ONLINE COMPLETION POINTS:** These points are earned for completing all online homework problems by the due date. You may continue working on the online homework problems to improve your homework grade, but you cannot make up lost completion points.

**CHAPTER TESTS:** There will be 4 Chapter Tests. **You must make arrangements with me on or before the day of a test to make it up.** If you do not contact me, do not expect to be able to take a make-up test. All make-ups, if granted, must be completed before the exams are returned to the class.

**FINAL EXAM:** The Final Exam is worth 15% of your course grade and will be cumulative. There will be no exemptions and **no make-ups** for the final exam.

**WITHDRAWAL:** Any student who has not registered through Course Compass by Thursday, June 5 will be withdrawn from the class. Also, according to college policy, students may be withdrawn by the instructor after 2 unexcused absences.

**CELL PHONES** and other toys are not welcome in this class. These are to be turned off and put away before the start of class. Any student caught using these devices during class will lose all points for that day (even if it happens to be a test day). Your cell phone may **not** be used as a calculator during class. Video/audio tape recorders are not allowed in class.

**GENERAL CONDUCT:** I expect that you will conduct yourself in a responsible, mature, and academically honest manner. Students who exhibit improper conduct are subject to disciplinary action as explained in the SCC General Catalog and Student Handbook. Any student caught cheating on an assignment/quiz/test will receive a grade of zero on that assignment/quiz/test and disciplinary action will be taken in accordance with SCC policies.

**SPECIAL ACCOMODATIONS:** College policy requires that students with documented disabilities be provided with reasonable accommodations to assist them in the learning environment. If you would like to request such accommodations, please contact the Disability Resources office, (480) 423-6517.

#### **EXPECTATIONS:**

You can expect me to:

- ◆ Create a learning environment that supports your concerted effort to learn mathematics
- ◆ Begin and end class on time
- ◆ Be prepared for each class session
- ◆ Provide academic feedback and grade assignments in a fair, impartial and timely manner
- ◆ Be available for individual consultation
- ◆ Clarify assignments and inform you of any adjustments to the syllabus or class schedule
- ◆ Be courteous and respectful to you both as a human being and as a learner of mathematics
- ◆ Return your phone calls or respond to emails as soon as possible  
(usually within 24 hours except perhaps on weekends)

In return, I expect you to:

- ◆ Put forth your best effort and ask questions when you don't understand
- ◆ Attend class regularly and be in class on time
- ◆ Be prepared for class sessions and participate in class activities
- ◆ Be courteous and respectful to me and to your classmates
- ◆ Be responsible for the information in this document
- ◆ Maintain knowledge of your grade status
- ◆ Contact me immediately about concerns or situations that could interfere with your success in this class

**I reserve the right to alter this syllabus at any time and make the changes known in class and/or online. You are responsible for these changes whether or not you attend class the day of an announcement.**