

**MAC1105 College Algebra      Sections: M43**  
**Fall 2006, 3 credit hours**

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| <b>Course Description:</b>    | <b>College Algebra:</b> PR: Intermediate algebra or 2 years of high school algebra or C.I. Inequalities. High degree polynomials. Graphs, rational, logarithmic, and exponential functions. Systems of equations, matrices, determinants, induction. This course prepares students for higher-level mathematics courses. The “NC” grading policy applies to this course.  |
| <b>Course Objectives:</b>     | This course is designed to familiarize the student with such fundamental mathematical concepts as polynomials, linear and quadratic equations, exponential and logarithmic functions, and various methods (i.e. Gauss-Jordan elimination) for solving linear systems of equations. Upon successful completion of the course, the student will be able to apply various problem-solving strategies to find solutions to a variety of real-life problems. Furthermore, the student will have acquired the necessary algebraic skills to continue pursuing higher levels of mathematics.                         |
| <b>Class Format:</b>          | This is a reduced seat time course which means that students in a 3-credit hour course only spend one hour a week in the traditional classroom setting and then use specialized software tied to their textbook, called MyMathLab for their remaining instruction. Help and Example buttons guide students through the homework, and the pdf textbook and streaming videos can be accessed through the software. Students get immediate, individualized feed back. This student-centered approach to learning requires students to put in more time “doing” mathematics and less time ”watching” mathematics. |
| <b>Contact Information:</b>   | Instructor: Dana Baxley<br>Email: dbaxleyucf@yahoo.com<br>Office: MAP 350G<br><br>Regular Office Hours: Tu/Th 11:30-12:30<br><br><u>Virtual Office Hours will be available via My Math Lab. The days and times that the virtual classroom will be moderated are indicated in the online calendar.</u>   |
| <b>Required Textbook:</b>     | <u>College Algebra</u> , by Lial, Hornsby, and Schneider Custom Edition (available in the bookstore. Do not order your textbook online as you will need the custom version of the text which includes software and additional inserts.)<br>ISBN: 0-536-96724-5  |
| <b>Calculator:</b>            | You may use a Texas Instruments TI-30XA calculator on the tests and quizzes. You may not use any other type or model calculator in this course. Use of an unauthorized calculator will result in a grade of zero and possible disciplinary action. Calculators will be checked to verify correct model. Sharing calculators during exams is not allowed.  |
| <b>Attendance/ Etiquette:</b> | Please observe common rules of courtesy. Once inside the classroom you should turn off all cell-phones and pagers and not use them during class. Past experience indicates that the students who will succeed in the class are the students who attend. You should plan on staying for the entire class meeting. Try to avoid leaving early or arriving late as it is a distraction to your classmates and your instructor. Attendance will be taken for the NC grade criteria!   |

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| <b>Academic Honesty:</b>                  | <p>The work submitted in this class is expected to be your own. Forms of cheating/academic dishonesty include (but are not limited to): communicating with another student during a test or quiz (this includes giving information to another student as well as receiving that information), using an unauthorized calculator, using unauthorized material during a test or quiz, and communicating contents of a test or quiz to another student. I reserve the right to penalize a student for academic dishonesty by assigning the student an F for the course. In addition, further disciplinary action through the university will be taken. Please be aware that disciplinary action through the university could result in suspension or expulsion. For more information on academic honesty, please see the Golden Rule contents available at <a href="http://www.goldenrule.sdes.ucf.edu">http://www.goldenrule.sdes.ucf.edu</a></p>   |
| <b>Disability related Accommodations:</b> | <p>The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. This syllabus is available in alternate formats upon request. Students who need accommodations must be registered with Student Disability Services, Student Resource Center Room 132, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the instructor. No accommodations will be provided until the Student Disability Services office has notified the instructor concerning appropriate accommodations.</p>  |
| <b>Online Homework and Quizzes:</b>       | <p>Studies indicate that you should spend at least two hours working on homework outside of class for every hour you spend in class. Any student needing extra practice is encouraged to complete additional exercises from the text or online in the tracked tutorial exercises. There are computers with My Math Lab software installed in several of the computer labs on both the main campus and Rosen School. The online homework/quiz average will constitute 15% of your course grade. Homework comes from problems algorithmically generated by the software that are iterations of the textbook exercises. Homework assignments can be repeated an infinite number of times within the time period specified. Online quiz questions come directly from the pool of assigned homework problems. In the unlikely event that you are unable to access My Math Lab through the website, please use the following link: <a href="http://www.mathxl.com">http://www.mathxl.com</a></p> |
| <b>Class Quizzes:</b>                     | <p>Typically, you will take a short quiz during your class meeting. The question(s) will be similar to the exercise questions at the end of each section in the book and the online assignments. The lowest quiz score will be dropped. The quiz average will constitute 15% of your course grade.</p>   |
| <b>Tests:</b>                             | <p>There are four tests throughout the semester and a 170-minute comprehensive final exam. The lowest test grade (of the four tests) is dropped, and the average of your three highest test grades will constitute 50% of your course grade.</p> <p>Students should attend each exam with the following items:</p> <ul style="list-style-type: none"> <li>• picture ID (either your student ID or a driver's license)</li> <li>• #2 pencil (and a spare with extra lead)</li> <li>• TI-30XA calculator (with the lid stored in your book bag)</li> <li>• Knowledge of your PID</li> </ul> <p>All tests <b>must</b> be taken in the lecture section in which you are registered otherwise <u>a grade of zero will be given</u>. Personal travel plans will not be a valid reason for taking any test at a different time.</p>   |

|                                     | <b>Test Dates:</b><br>Test 1: September 18, 2006<br>Test 2: October 9, 2006<br>Test 3: October 23, 2006<br>Test 4: November 13, 2006   |         |       |           |   |          |   |        |   |       |   |                                     |    |
|-------------------------------------|--|---------|-------|-----------|---|----------|---|--------|---|-------|---|-------------------------------------|----|
| <b>Final Exam:</b>                  | A common final exam time has been requested for this class. At time of printing, we do not know the exact day, time, and location of the final exam. It will most likely be on Friday, December 8, 2006 from 4:00-6:50PM or possibly on Saturday, December 9, 2006. Notification will be sent via e-community and the course online announcement page.   |         |       |           |   |          |   |        |   |       |   |                                     |    |
| <b>Make-up Policy:</b>              | All tests and quizzes must be taken in the class in which you are registered. Personal travel plans will not be a valid reason for taking any test, quiz, or the final exam at a different time than scheduled for your section.<br><br>As your lowest test and quiz score will be dropped, make-up tests or quizzes will typically not be given. Exceptions may be made at the discretion of the instructor if the request is made prior to the assessment date and valid documentation is provided. In the event a make up is given, it will cover the same sections of the text as the class assessment but the format may not be the same. Please keep in mind that your lowest test score and lowest quiz score will be dropped, therefore if you miss a test or quiz, the missed assignment can count as your dropped test or quiz score.  |         |       |           |   |          |   |        |   |       |   |                                     |    |
| <b>Grading Policy:</b>              | Your grade will be earned from the following assignments: <ul style="list-style-type: none"> <li>• Test average (three highest of the four test grades): worth 50% of total grade</li> <li>• Class Quiz average: worth 15% of total grade</li> <li>• My Math Lab Online average: worth 15% of total grade</li> <li>• Final exam score: worth 20% of total grade</li> </ul>   |         |       |           |   |          |   |        |   |       |   |                                     |    |
| <b>Grading Scale:</b>               | The +/- system will not be used in this class. Letter grades will be awarded according to the following grading scale: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Average</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td>90 – 100%</td> <td>A</td> </tr> <tr> <td>80 – 89%</td> <td>B</td> </tr> <tr> <td>70-79%</td> <td>C</td> </tr> <tr> <td>0-69%</td> <td>F</td> </tr> <tr> <td>Below 70% and NC criteria below met</td> <td>NC</td> </tr> </tbody> </table>   | Average | Grade | 90 – 100% | A | 80 – 89% | B | 70-79% | C | 0-69% | F | Below 70% and NC criteria below met | NC |
| Average                             | Grade  |         |       |           |   |          |   |        |   |       |   |                                     |    |
| 90 – 100%                           | A  |         |       |           |   |          |   |        |   |       |   |                                     |    |
| 80 – 89%                            | B  |         |       |           |   |          |   |        |   |       |   |                                     |    |
| 70-79%                              | C  |         |       |           |   |          |   |        |   |       |   |                                     |    |
| 0-69%                               | F  |         |       |           |   |          |   |        |   |       |   |                                     |    |
| Below 70% and NC criteria below met | NC   |         |       |           |   |          |   |        |   |       |   |                                     |    |
| <b>NC Grade Policy:</b>             | The intent of the NC grade is to encourage struggling students to remain in class and work hard, rather than withdrawing midway through the semester. By completing the course, the student's exposure to all the class material should allow them to perform better when repeating the class. No course credit is given for an "NC" grade, nor will it satisfy any requirements or subsequent courses' prerequisites. However the student's UCF grade point average will not be penalized for the "NC". To earn the "NC" the instructor must feel the student is working very hard to succeed in the class. Therefore, the "No- credit" (NC) grade will be awarded in place of an F when the following criteria are met: <ul style="list-style-type: none"> <li>* Student regularly attends class missing no more than two classes.</li> <li>* Student completes all assignments calculated in the course average.</li> </ul> |         |       |           |   |          |   |        |   |       |   |                                     |    |

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| <b>Extra Help:</b>      | In addition to virtual and regular office hours, the Math Lab is available free of charge to all students enrolled in the course. The Math Lab is located in MAP 113, and is open Monday to Thursday from 9am to 7pm, on Friday from 9am to 3pm, and on Sunday from 2pm to 6pm. The text also has an online assistance program and free tutoring by phone, email, fax, or chat sessions. Information is available on the My Math Lab website or by calling 1-888-777-0463. |
| <b>Important Dates:</b> | The last day for withdrawal is October 13, 2006<br>University holidays are September 4, 2006; November 10, 2006; November 23-25, 2006<br>Finals week is December 4-9, 2006   |

We are looking forward to a great semester!

| DAY /WEEK      | DATE      | SECTION  | TOPICS                                      | ASSESSMENTS             |
|----------------|-----------|--|---|-------------------------|
| <b>Week 1:</b> | 8/21-8/27 |  |   |                         |
|                |           | R.1-R.2  | Properties of Real Numbers , Absolute Value |                         |
|                |           | R.3-R.5  | Polynomials, Factoring                      |                         |
|                |           | R.6-R.7  | Radicals, Exponents                         |                         |
|                |           |  |   |                         |
| <b>Week 2:</b> | 8/28-9/3  | Due<br>11:59pm the<br>night before<br>your class | HW#R1-R7, QUIZ#1                            |                         |
|                |           | 1.1  | Linear Equations, My Math Lab               |                         |
|                |           | 1.2  | Applications of Linear Equations            |                         |
|                |           | 1.3  | Complex Numbers                             | In-class quiz this week |
|                |           |  |   |                         |
| <b>Week 3:</b> | 9/4-9/10  | Due<br>11:59pm the<br>night before<br>your class | HW#1.1, HW#1.2, HW#1.3, QUIZ#2              |                         |
|                |           |  | Holiday: No Class on 9/4                    |                         |
|                |           | 1.4  | Quadratic Equations                         |                         |
|                |           | 1.5  | Applications of Quadratic Equations         | In-class quiz this week |
|                |           |  |   |                         |
| <b>Week 4:</b> | 9/11-9/17 | Due<br>11:59pm the<br>night before<br>your class | HW#1.4,HW#1.5, QUIZ#3                       |                         |
|                |           | 1.6  | Other Types of Equations                    |                         |
|                |           | 1.7  | Inequalities                                |                         |
|                |           | 1.8  | Absolute Value Equations/Inequalities       | In-class quiz this week |
|                |           |  |   |                         |

|                 |             |  |  |                         |
|-----------------|-------------|--|--|-------------------------|
| <b>Week 5:</b>  | 9/18-9/24   | Due<br>11:59pm the<br>night before<br>your class | HW#1.6,HW#1.7,HW1.8,QUIZ#4               |                         |
|                 |             |  | EXAM 1, Module 1                         |                         |
|                 |             | 2.1  | Graphs of Equations                      | Exam in-class this week |
|                 |             |  |  |                         |
| <b>Week 6:</b>  | 9/25-10/1   | Due<br>11:59pm the<br>night before<br>your class | HW#2.1, QUIZ#5                           |                         |
|                 |             | 2.2  | Functions                                |                         |
|                 |             | 2.3  | Linear Functions                         |                         |
|                 |             | 2.4  | Equations of Lines                       | In-class quiz this week |
|                 |             |  |  |                         |
| <b>Week 7:</b>  | 10/2-10/8   | Due<br>11:59pm the<br>night before<br>your class | HW#2.2,HW#2.3,HW#2.4,QUIZ#6              |                         |
|                 |             | 2.5  | Graphs of Basic Functions                |                         |
|                 |             | 2.6  | Graphing Techniques                      |                         |
|                 |             | 2.7  | Function Operations                      | In-class quiz this week |
|                 |             |  |  |                         |
| <b>Week 8:</b>  | 10/9-10/15  | Due<br>11:59pm the<br>night before<br>your class | HW#2.5,HW#2.6,HW#2.7,QUIZ#7              |                         |
|                 |             |  | EXAM 2, Module 2                         |                         |
|                 |             | 3.1  | Quadratic Functions                      |                         |
|                 |             | 3.2  | Synthetic Division (Withdrawal Deadline) | Exam in-class this week |
|                 |             |  |  |                         |
| <b>Week 9:</b>  | 10/16-10/22 | Due<br>11:59pm the<br>night before<br>your class | HW#3.1,HW#3.2,QUIZ#8                     |                         |
|                 |             | 3.3  | Zeros of Polynomials                     |                         |
|                 |             | 3.4  | Polynomial Functions                     |                         |
|                 |             | 3.5  | Rational Functions                       | In-class quiz this week |
|                 |             |  |  |                         |
| <b>Week 10:</b> | 10/23-10/29 | Due<br>11:59pm the<br>night before<br>your class | HW#3.3,HW#3.4,HW#3.5,QUIZ#9              |                         |
|                 |             |  | EXAM 3, Module 3                         |                         |
|                 |             | 4.1  | Inverse Functions                        | Exam in-class this week |

|                 |             |  |                                    |  |
|-----------------|-------------|--|------------------------------------|--|
| <b>Week 11:</b> | 10/30-11/5  | Due<br>11:59pm the<br>night before<br>your class | HW#4.1, QUIZ#10                    |  |
|                 |             | 4.2  | Exponential Functions              |  |
|                 |             | 4.3  | Logarithmic Functions              | In-class quiz this week                                  |
|                 |             |  |                                    |  |
| <b>Week 12:</b> | 11/6-11/12  | Due<br>11:59pm the<br>night before<br>your class | HW#4.2,HW#4.3,QUIZ#11              |  |
|                 |             | 4.4  | Evaluating Logarithms              |  |
|                 |             | 4.5  | Exponential/Logarithmic Equations  |  |
|                 |             | 4.6  | Exponential Growth and Decay       | In-class quiz this week                                  |
|                 |             |  |                                    |  |
| <b>Week 13:</b> | 11/13-11/19 | Due<br>11:59pm the<br>night before<br>your class | HW#4.4,HW#4.5,HW#4.6,QUIZ#12       |  |
|                 |             |  | EXAM 4, Module 4                   |  |
|                 |             | 5.1  | Systems of Linear Equations        | Exam in-class this week                                  |
|                 |             |  |                                    |  |
| <b>Week 14:</b> | 11/20-11/26 | Due<br>11:59pm the<br>night before<br>your class | HW#5.1,QUIZ#13                     |  |
|                 |             | 5.2  | Matrix Solutions to Linear Systems |  |
|                 |             | 5.5  | Nonlinear Systems of Equations     | In-class quiz this week<br>(except Thursday<br>sections) |
|                 |             |  | Holiday: No Class 11/23            |  |
|                 |             |  |                                    |  |
| <b>Week 15:</b> | 11/27-12/3  | Due<br>11:59pm the<br>night before<br>your class | HW#5.2,HW#5.5,QUIZ#14              |  |
|                 |             |  | Review                             | In-class quiz this week                                  |

Please Note: This schedule may be modified at the discretion of the instructor. Any change notification will be made via e-community or the announcement page of My Math Lab.