

# **Course Syllabus: Fall 2009**

## **College Algebra: Calallen High School**

**Mathematics / Physics Department**

**Math 1314.770**

**Instructor: Mr. Harley    Office: CB 340**

**Office Hours: MWF 9:00am to 10:00am, TR 2:30pm to 3:30pm**

**E-mail address: dharley@delmar.edu**

**Phone: (361) 698-1570**

### **COLLEGE ALGEBRA:**

This course will utilize the “MyMathLab” computer program. This program is Internet based so Internet access is essential. The text associated with this class is “College Algebra” by Lial, Hornsby, and Schneider Tenth Edition (ISBN-10: 0-321-49913-1). Each new text includes a “MyMathLab” card (Also known as a Student Access Kit, which contains a Student Access Code) and a set of “Digital Video Tutors” (ISBN-10: 0-321-53047-0). Both are essential for success in class. If your text does not have both, please check the bookstore for a text that does include both. The Student Access Code can also be purchased online when you register for Course Compass. The website is [www.coursecompass.com](http://www.coursecompass.com). The MyMathLab program does not work on Mac Computers and it works best on the Internet Explorer Web Browser. You will need three things to register for Course Compass: a valid email address, a student access code, and a course ID. **Course Compass Course ID: harley42082**

**Calculator: The TI-83 or TI-84 calculator is mandatory for this course.**

### **Grading policy**

Students will be given four tests this semester. Three major tests will be scheduled during the semester and the final exam will be administered at the appropriate time during finals week. There are 24 quizzes, one for each section, plus a quiz review for the Final Exam. A computer generated homework review is available before each test. This means you will be able to study the review well before each test. This review is not a substitute for course material found in your textbook or online. Homework is calculated as part of the grade.

Online test and quiz dates are easily identified on the course calendar. Tests are timed (50 minutes) and will be taken in class. Tests are limited no more than 20 questions. Quizzes are limited to no more than five questions and will be taken in class. Quizzes are also timed with no more than 30 minutes per quiz. Unfortunately, once started, you can't go back and re-work past test or quiz problems. MyMathLab automatically takes the better grade. Homework counts as 15% of your overall grade. It's possible to rework any homework assignment even after the due date and receive the better grade. If you miss a scheduled exam, you will not be allowed to make-up that exam. However, your Final Exam score can take the place of your lowest test grade provided it is higher than that test grade.

### **Grades:**

**Homework: 15%**

**24 Quizzes: 15% (3 lowest quiz scores will be dropped)**

**Test 1 (Chapters 1 & 2): 15%**

**Test 2 (Chapters 3 & 4): 15%**

**Test 3 (Chapters 5 & 6): 15%**

**Final Exam: 25%**

Your Final Exam is comprehensive. Your Final Exam can replace one of your test grades if it is higher. You will be permitted to use a calculator and scratch paper, but no other notes will be permitted.

**Make-up policy:**

This is an internet based course. Your ability to access the Internet is essential. I am not responsible for technical problems that occur. You are required to find a reliable Internet ready computer. There are dependable computer in the Math Learning Center (CB116), housed in the Cole's Building. But *I am not responsible for technical problems* that occur on those computers either. Homework can be worked on after the due date. There will be no make-ups for quizzes or tests. However, your Final Exam grade can replace your lowest test grade, provided it is higher. Furthermore, your three lowest quiz scores will be dropped.

**Highlights**

1. Four tests including the final exam
2. Tests are timed
3. The final exam is 150 minutes
4. Homework review problems are available before each exam
5. 24 quizzes will be given
6. Homework is counted as part of your grade.
7. Three major tests count 45%
8. Final exam counts 25%
9. Quizzes count 15%
10. Homework counts 15%
11. *No retakes on tests*

**Withdrawing from the class:**

If you stop attending class without officially withdrawing from the College then the grade is an automatic "F". If you choose to withdraw, you must go to the Registrar's Office in person to withdraw from class. [The drop date for Fall 2009 is Monday, November 23<sup>rd</sup>, 2009.](#) You will receive an automatic "W" if the drop is made prior to, or, on the official drop date.

**Inclement Weather:** You should check for updated messages using the DMC Information Line at 698-1600 as well as checking with local television and radio stations for updates when there are severe changes in weather conditions. You are expected to make your own decisions regarding your travel abilities to and from campus and take precautions for your safety.

**Tentative Schedule of Topics:**

Each Chapter / Section has its own homework assignment and quiz. The dates these are available and the dates these are due is included on the Course Calendar. The test availability and due dates are listed below, but are also included on the Course Calendar. In addition, a list of topics is listed below. The link to the Course Calendar can be found on Course Compass as soon as you enter your course on the left side; click on the link entitled "Course Calendar". **Please be sure to check this calendar often to ensure that you do not miss the due dates for any homework, quiz or test.**

<b>Chapter / Section</b>	<b>Topic</b>
<b>Section 1.3</b>	<b>Complex Numbers</b>
<b>Section 1.4</b>	<b>Quadratic Equations</b>
<b>Section 1.6</b>	<b>Other Types of Equations</b>
<b>Section 1.7</b>	<b>Inequalities</b>
<b>Section 1.8</b>	<b>Absolute Value Equations and Inequalities</b>
<b>Section 2.1</b>	<b>Rectangular Coordinates and Graphs</b>
<b>Section 2.2</b>	<b>Circles</b>
<b>Section 2.3</b>	<b>Graphs of Functions</b>
<b>Section 2.4</b>	<b>Linear Functions</b>
<b>Section 2.5</b>	<b>Equations of Lines; Curve Fitting</b>
<b>Section 2.6</b>	<b>Graphs of Basic Functions</b>
<b>Section 2.8</b>	<b>Functions Operations and Compositions</b>
<b>Section 3.1</b>	<b>Quadratic Functions and Models</b>
<b>Section 4.1</b>	<b>Inverse Functions</b>
<b>Section 4.2</b>	<b>Exponential Functions</b>
<b>Section 4.3</b>	<b>Logarithmic Functions</b>
<b>Section 4.4</b>	<b>Evaluating Logarithms and the Change of Base Theorem</b>
<b>Section 4.5</b>	<b>Exponential and Logarithmic Equations</b>
<b>Section 5.2</b>	<b>Matrix solutions of Linear Systems</b>
<b>Section 5.3</b>	<b>Determinant Solutions of Linear Systems</b>
<b>Section 5.5</b>	<b>Nonlinear Systems of Equations</b>
<b>Section 6.2</b>	<b>Ellipses</b>
<b>Section 6.3</b>	<b>Hyperbolas</b>

### **MATH 1314. COLLEGE ALGEBRA (3-0-3) 27.0101.5419**

Fundamentals of algebra, including inequalities, functions, quadratic equations, exponential and logarithmic functions, systems of equations, determinants and instructor option of binomial theorem or progressions (or both). Prerequisite: Satisfactory score on college admission test or MATH 0372 (or MATH 0373). Assessment Levels: R3, E1, M3.

#### **Scholastic Dishonesty:**

Students are expected to maintain the integrity of the College by avoiding dishonesty in their own behavior and by expecting honest behavior from their fellow students. One of the requirements for passing the courses students take at Del Mar College is that students do their own work. Meeting this requirement means avoiding plagiarism, collusion and cheating. A full description of this policy is available from the Vice President of Student Development.

#### **Student Code of conduct:**

Please refer to the following link regarding the Student Code of Conduct and the Rights and Responsibilities of Students:

<http://www.delmar.edu/sthandbook/rights.php#3>

**Students with disabilities:**

Students needing accommodations based on a disability are encouraged to contact the office of Special Services, Harvin Student Center room 188, or by calling 698-1298 or the West Campus, Coleman Center, at 698-1741.

***Some Instructions***

1. Reliable machines can be found in the Math Learning Center in the Coles Building.
2. Take advantage of the AW Tutor Center. Their number is 1-800-435-4084. They have timely hours of operation and are accessible and willing to help you.
3. Technical support is essential if you're having trouble putting answers in properly or for technical problems. Their number is 1-800-677-6337. Give them a call. Unfortunately, I simply cannot help you with some technical problems. If you have a problem that they cannot resolve, contact me. Also, take advantage of the **MathXL** tutorial. It will teach you how to put answers into the program properly.
4. Homework can be reworked as many times as you like. Each time you rework the homework assignment, the program automatically stores the better homework grade.
5. Submitting the assignment is sufficient. You don't have to email me with your results. I automatically receive your results when you submit them.
6. If you don't submit the homework, the program will not grade it and you do not receive credit for that assignment.
7. You are responsible for looking over your course calendar. It can be found by clicking "Do Homework" and looking to the upper right hand corner of the screen. The icon, "View Course Calendar" gives you a weekly and monthly view of all assignments. You cannot access homework or exams early.
8. Please download all necessary plug-ins. You will not be able to see the homework or test problems without all plug-ins in place.
9. If you have any questions, don't hesitate to call my office, 698-1570. If I'm not available, I will return your phone call as soon as possible.
10. Finally, if you know of anyone that has not registered or is having trouble registering, please have them email me [धारley@delmar.edu](mailto:धारley@delmar.edu) or call me: 698-1570.