

<b>Course</b>	<b>MATH 1430 College Algebra</b>
<b>Term</b>	Fall 2, 2009
<b>Instructor</b>	Name: Bill Naves Phone: 816-350-2444 Email: navesw@webster.edu
<b>Catalog Description</b>	Covers sets, the real number system, functions, equations, inequalities, and logarithms.
<b>Prerequisites</b>	MATH 1050 or equivalent competence.
<b>Course Level Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Students will be able to classify numbers as Natural, Integer, Rational, Irrational, Real, or Imaginary.</li> <li>• Students will be able to evaluate or simplify expressions with integer exponents.</li> <li>• Students will be able to add, subtract and multiply polynomials.</li> <li>• Students will be able to factor out a greatest common factor from polynomials.</li> <li>• Students will be able to simplify a rational expression by factoring, or clearing denominators.</li> <li>• Students will be able to graph an equation by plotting points on a Cartesian Plane and by using the graphing tools on the calculator.</li> <li>• Students will be able to use the calculator to approximate the roots of an equation.</li> <li>• Students will be able to algebraically solve linear equations and inequalities.</li> <li>• Students will be able to solve equations of the form <math>x^n - a = 0</math>.</li> <li>• Students will be able to solve equations and inequalities by factoring.</li> <li>• Students will be able to solve equations by completing the square and the Quadratic Formula.</li> <li>• Students will be able to determine the number of real zero's of a polynomial.</li> <li>• Students will be able to apply the Theorem of Algebra and Rational functions.</li> <li>• Students will be able to solve systems of equations by substitution and or elimination.</li> <li>• Students will be able to apply their algebraic skills to various types of word problems.</li> <li>• Students will be able to add and multiply complex numbers.</li> <li>• Students will be able to manipulate exponential functions and solve growth problems.</li> <li>• Students will be able to manipulate logarithms and find inverse functions.</li> </ul>

<p><b>General Education Criteria</b></p>	<p><b>This course has General Education Coding for MTH (Mathematics) and CRI (Critical Thinking).</b></p> <p>This course has General Education Coding for MTH (Mathematics). It must therefore meet the following criteria:</p> <ul style="list-style-type: none"> <li>• Student learns to explore, conjecture and reason logically</li> <li>• Student learns a variety of mathematical methods effectively to solve non-routine problem</li> <li>• Student learns to judge the role of mathematical reasoning in real-life situations.</li> <li>• Student learns to communicate mathematically.</li> </ul> <p><b>This course has General Education Coding for CRI (Critical Thinking). It must therefore meet the following criteria:</b></p> <ul style="list-style-type: none"> <li>• Student learns a systematic approach to thinking</li> <li>• Student learns how to examine arguments by identifying, analyzing, and evaluating claims and the evidence offered in support of these claims</li> <li>• Student learns about inquiry process, not content</li> <li>• Student learns through active participation</li> </ul>															
<p><b>Materials</b></p>	<p><i>College Algebra Special Seventh Edition with Study and Solutions Guide</i>, Larson, Houghton-Mifflin.  ISBN: 0-618-77629-X  Text is available from MBS Direct Books at <a href="http://mbsdirect.net">mbsdirect.net</a> or 1-800-325-3252.</p>															
<p><b>Grading</b></p>	<p><b>The UNDERGRADUATE catalog provides these guidelines and grading options:</b></p> <ul style="list-style-type: none"> <li>• <b>A, A-</b> superior work in the opinion of the instructor</li> <li>• <b>B+, B, B-</b> good work in the opinion of the instructor</li> <li>• <b>C+, C, C-</b> satisfactory work in the opinion of the instructor</li> <li>• <b>D+, D</b> passing, but less than satisfactory work in the opinion of the instructor</li> <li>• <b>I</b> incomplete work in the opinion of the instructor</li> <li>• <b>ZF</b> An incomplete which was not completed within one year of the end of the course</li> <li>• <b>F</b> unsatisfactory work in the opinion of the instructor; no credit is granted</li> <li>• <b>W</b> withdrawn from the course</li> <li>• <b>IP</b> course in progress</li> <li>• <b>NR</b> not reported for the course</li> <li>• <b>Z</b> a temporary designation given by the registrar indicating that the final grade has not been submitted by the instructor. When the final grade is filed in the Office of the Registrar, that grade will replace the Z.</li> </ul> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Quizzes</td> <td>=</td> <td>50%</td> </tr> <tr> <td>Assignments and exercises</td> <td>=</td> <td>10%</td> </tr> <tr> <td>Midterm Examination</td> <td>=</td> <td>15%</td> </tr> <tr> <td>Final Examination</td> <td>=</td> <td>20%</td> </tr> <tr> <td>Attendance &amp; Participation</td> <td>=</td> <td>5%</td> </tr> </table>	Quizzes	=	50%	Assignments and exercises	=	10%	Midterm Examination	=	15%	Final Examination	=	20%	Attendance & Participation	=	5%
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	Total = 100%
<b>Activities</b>	Lecture, discussion, in-class activities, homework
<b>Policy Statements: University Policies</b>	<p>University policies are provided in the current course catalog and course schedules. They are also available on the university website. This class is governed by the university's published policies. The following policies are of particular interest:</p> <p><b>Academic Honesty</b> The university is committed to high standards of academic honesty. Students will be held responsible for violations of these standards. Please refer to the university's academic honesty policies for a definition of academic dishonesty and potential disciplinary actions associated with it.</p> <p><b>Drops and Withdrawals</b> Please be aware that, should you choose to drop or withdraw from this course, the date on which you notify the university of your decision will determine the amount of tuition refund you receive. Please refer to the university policies on drops and withdrawals (published elsewhere) to find out what the deadlines are for dropping a course with a full refund and for withdrawing from a course with a partial refund.</p> <p><b>Special Services</b> If you have registered as a student with a documented disability and are entitled to classroom or testing accommodations, please inform the instructor at the beginning of the course of the accommodations you will require in this class so that these can be provided.</p> <p><b>Disturbances</b> Since every student is entitled to full participation in class without interruption, disruption of class by inconsiderate behavior is not acceptable. Students are expected to treat the instructor and other students with dignity and respect, especially in cases where a diversity of opinion arises. Students who engage in disruptive behavior are subject to disciplinary action, including removal from the course.</p> <p><b>Student Assignments Retained</b> From time to time, student assignments or projects will be retained by The Department for the purpose of academic assessment. In every case, should the assignment or project be shared outside the academic Department, the student's name and all identifying information about that student will be redacted from the assignment or project.</p> <p><b>Contact Hours for this Course</b></p>

	It is essential that all classes meet for the full instructional time as scheduled. A class cannot be shortened in length. If a class session is cancelled for any reason, it must be rescheduled.
<b>Course Policies</b>	This syllabus may be revised at the discretion of the instructor without the prior notification or consent of the student.
<b>Weekly Schedule</b>	Weekly schedule will be given to class first meeting.
<b>Additional Information</b>	None

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