

<b>Course Title: COLLEGE PREP ALGEBRA IIA</b>	<b>Course Description</b>
<p><b>Course No.</b> 4253                      <b>Grade level:</b> 9-12</p> <p><b>Text and Resource Options:</b>  A. <i>Algebra II</i>; Saxon Publishers  B. <i>Algebra II</i>; McDougal Littell</p>	<p><b>Course Value:</b> *One Semester</p> <p><b>Credit Value:</b> 1 – 5</p> <p><b>Prerequisite:</b> Algebra I  Geometry</p>
<p align="center"><b>Course Content: Key Content Standards and Course Objectives</b></p>	
<p>The following objectives are based on the Grades 8-12 Algebra II Standards:</p> <ol style="list-style-type: none"> <li>1. Students are adept at operations on polynomials, including long division (3.0)</li> <li>2. Students factor polynomials representing the difference of squares, perfect square trinomials, and the sum and difference of two cubes (4.0).</li> <li>3. Students demonstrate knowledge of how real and complex numbers are related both arithmetically and graphically (5.0).</li> <li>4. Students demonstrate and explain the effect that changing a coefficient has on the graph of quadratic functions (9.0).</li> </ol>	<p>This course complements and expands the mathematical content and concepts of Algebra I and Geometry. Upon successful completion, students will understand and be able to work with algebraic solutions of problems in various content areas, including the solution of systems of quadratic equations, logarithmic and exponential functions, the binomial theorem, and the complex number system.</p> <p>*Open entry/open exit</p>
<p align="center"><b>Methods of Study</b></p>	<p align="center"><b>Evaluation of Performance Standards</b></p>
<ol style="list-style-type: none"> <li>1. Students will complete all activities assigned.</li> <li>2. Students will participate in discussion with other class members and/or teacher.</li> </ol>	<ol style="list-style-type: none"> <li>1. Students will complete all assignments with a minimum of 70% accuracy.</li> <li>2. The supervising teacher will be satisfied with the quality of the student's work.</li> <li>3. The student must receive a minimum score of 70% on a teacher assigned final evaluation.</li> <li>4. Letter grades are optional and require a higher level of performance.</li> </ol>

**COLLEGE PREP ALGEBRA IIA**  
**Course Outline: 4253**

**I. Textbook Assignment Options:**

A. *Saxon Algebra II*, Part I (**5.0 credits**)  
(Direct instruction or course contract required)

B. *Algebra II*; McDougal Littlell, Part I (**5.0 credits**)

Chapters 1-6: complete the following:

- Guided Practice, even-numbered problems.
- Practice and Applications, even-number problems (omit the “Test Preparation” and “Challenge” Problems).
- Chapter Review, even-numbered problems.
- Chapter Test, even-numbered problems.

**II. Extension Activity**

Technology activities are infused with textbook curriculum.

**III. Evaluation**

- Unit and/or final test.
- All textbook work must meet the 70% accuracy level for a “C” grade.