Course Title: COLLEGE PREP ALGEBRA IIB	**Course Description**
Course No. 4254 **Grade level**: 9-12 **Text and Resource Options:** A. *Algebra II*; Saxon Publishers B. *Algebra II*; McDougal Littell	**Course Value:** *One Semester **Credit Value:** 1 - 5 **Prerequisite:** Algebra II A
Course Content: Key Content Standards and Course Objectives	
The following objectives are based on the Grades 9-12 Algebra II Standards: 1. Students solve equations and inequalities involving absolute value. 2. Students solve systems of linear equations and inequalities by substitution, with graphs, or with matrices. 3. Students solve and graph quadratic equations by factoring, completing the square, or using the quadratic formula. 4. Students graph quadratic functions. 5. Students prove simple laws of logarithms. 6. Students demonstrate that they know the laws of fractional exponents. 7. Students use the properties of logarithms to simplify logarithmic numeric expressions.	This course is a continuum of the standards found in Algebra IIA. It 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. *Open entry/open exit
Methods of Study	**Evaluation of Performance Standards**
1. Students will complete all activities assigned. 2. Students will participate in discussion with other class members and/or teacher.	1. Students will complete all assignments with a minimum of 70% accuracy. 2. The supervising teacher will be satisfied with the quality of the student's work. 3. The student must receive a minimum score of 70% on a teacher assigned final evaluation. 4. Letter grades are optional and require a higher level of performance.

COLLEGE PREP ALGEBRA IIB
Course Outline: 4254

I. Textbook Assignment Options:

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

B. *Algebra II*; McDougal Littlell, Part II**(5 credits)**

Chapters 7-12: 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