COURSE DESCRIPTION

Course Title: __Algebra 1B__

Course Number: 00226

Course Prerequisites: This course is designed for the student who has passed Algebra IA with at least a 60%.

Course Description:

Algebra IB is the second of the two year Algebra course; continuing the sequence Algebra IA, Algebra IB, and Geometry. In order to take this course, a student must have passed Algebra IA with at least a 60%. This course continues the study of numbers and operations, measurement, algebraic concepts, and data analysis and probability. A final exam is required.

Suggested Grade Level: Grades 10-11

Length of Course: ☐ One Semester   ☒ Two Semesters   ☐ Other (Describe)

Units of Credit: __1__ (Insert *None* if appropriate)

PDE *Certification and Staffing Policies and Guidelines* **(CSPG) Required Teacher Certifications**:
CSPG #50 Mathematics

Certification verified by WCSD Human Resources Department: ☒ Yes   ☐ No

TEXTBOOK AND SUPPLEMENTAL MATERIALS

Planned Instruction reflects use of current Board approved textbook? ☐ Yes   ☒ No
(*If YES, complete the current textbook information below. If NO, complete new textbook information to be approved.*)

Board Approved Textbooks, Software, Supplemental Materials:
Title: Foundations Algebra I
Publisher: Prentice Hall
ISBN #: 9780132522878
Copyright Date: 2011
Date of WCSD Board Approval:

COURSE OVERVIEW
(*List the content to be taught*)

Content Sequence

I. Tools of Algebra (Review)
   a. Order of operations *
   b. Using formulas *
   c. Using algebraic properties *
   d. Simplifying square roots
   e. Simplifying rational expressions
II. Solving linear equations and inequalities *
   a. Review
   b. Applications
III. Inequalities and Absolute Values *
   a. Compound
   b. Graphing systems of inequalities
IV. Graphs and Forms of Linear Equations *
   a. Review
   b. Line of best fit

V. Systems of Equations *
   a. Review
   b. Applications
VI. Exponents *
   a. Review
   b. Application
VII. Factoring
   a. Greatest common factor
   b. Trinomials
   c. Difference of two squares
VIII. Polynomials
IX. Quadratics
   a. Graphing
   b. Solve by factoring

X.   Data Analysis and Probability *

*This has been initially taught in Algebra 1A.

Objectives:
Students will:
- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

For standards, essential questions, content, and skills see Curriculum Map – Click here to enter text.

ASSESSMENT

Portfolio Assessment: _____ Yes __X__ No

District-Wide Common Final Examination Required: __X_ Yes _____ No

Course Challenge Assessment (Describe)**:** Not Applicable

WRITING TEAM: Warren County School District Teachers

WCSD STUDENT DATA SYSTEM INFORMATION

1. Is there a required final examination? __X__ Yes _____ No
   Warren County School District Policy 9741 and 9744 state, "All classes in grades 9-12 shall have a final exam."

2. Does this course issue a mark/grade for the report card? __X__ Yes _____ No

3. Does this course issue a Pass/Fail mark? _____ Yes __X__ No

4. Is the course mark/grade part of the GPA calculation? __X__ Yes _____ No

5. Is the course eligible for Honor Roll calculation? __X__ Yes _____ No

6. What is the academic weight of the course?

   _____ No weight/Non credit   __X__ Standard weight   _____ Enhanced weight