

Brighton High School

Course Title:	Algebra II
Prerequisites:	Algebra I
Class Day and Time:	Algebra II; 2 nd Period; 4 Period
Teacher:	Kent Cates Email: kcates@tipton-county.com

Catalog Description:

This course presents a variety of applications of Algebra to real-world problems and includes an introduction to probability and statistics.

Text:

Glencoe Mathematics – Algebra II

Course Objectives:

- To communicate mathematically in both written and verbal forms
- To reason with symbolic and graphical representations
- To use mathematics to solve business and other real-world problems
- To construct and discuss mathematical models
- To use technology, such as graphing calculators and computers, to enhance their mathematical understandings and to solve application problems

Measureable Learning Outcomes:

- Graph systems of linear equations and inequalities
- Solve systems of linear equations and inequalities both graphically and algebraically
- Add, subtract, and multiply and compute the inverses of matrices
- Use matrices to solve systems of equations, with the use of several methods
- Solve financial problems such as those involving simple and compound interest, annuities, sinking funds, and amortization formulas
- Apply basic concepts of set theory to practical problems
- Apply basic concepts of probability, including conditional probabilities and independence to practical problems
- Calculate statistical measures of central tendency and dispersion and make conclusions about data from these measures

Instruction Methods:

The instructional methods will include lecture, question / answer sessions, and individual exploration.

Calculators:

The required calculator for this course is the TI-83 Plus or TI-84 Plus, (also appropriate use on the ACT). Calculators with the ability to perform symbolic manipulations such as the TI-89 or TI-92 will not be allowed. Your approved calculator may be used on quizzes and exams if specified.

Outside Assignments:

There will be homework assignments for each section covered during the class. Each assignment will have a due date and will not be accepted beyond that date. If you are absent on the assigned due date you must have an excused absent notice approved by BHS administration and then the assignment is due on the first day our class meets upon your return.

Classroom Assignments:

We will have chapter test, daily participation, quizzes and classroom activities of which all will be graded.

Grading System:

Daily work will consist of:

- Daily participation
- Chapter pre-test
- Quiz's
- Group exercises

Homework will consist of:

- Chapter assignments
- Group exercises

Test will consist of:

- Chapter exam's

Point System for each topic:

- Daily work will be 25%
- Homework will be 25%
- Test will be 50%

Example:

- Daily work - 1st 9 Wk average is 85, this will be multiplied by 25% to get 21.25 points
 - Homework - 1st 9 Wk average is 80, this will be multiplied by 25% to get 20.0 points
 - Test - 1st 9Wk average is 100, this will be multiplied by 50% to get 50 points
- Grade for the first semester would 91.25 of which would be a "B"

