**220: College Prep Algebra II** *(Level: 3 / 2 credits)*

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| This is an accelerated course with an emphasis on modeling as it expands upon the topics developed in Algebra I. Students will study a variety of functions with both a graphical and algebraic approach, including quadratic, polynomial, exponential, logarithmic, rational, radical and trigonometric functions. This course also investigates important concepts in data analysis and statistics. Use of the graphing calculator is emphasized throughout instruction. Applications include problems relating to the students’ technical areas and everyday life.  |

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**Prerequisites:**  Successful completion of College Prep Algebra I.

**Note:** This course renders students eligible for a 4 year college program. **Required Text(s):** Holt McDougal: Algebra 2

**Supply List:**

* College Ruled paper (100+ pages) in a notebook or a binder
* A place to keep handouts (binder or sturdy folder)
* **Pencils** and erasers
* Textbook (*covered at all times*)
* Calculator (if you do not own a graphing calculator, you MUST have a scientific calculator)

**Contact Information:**

**Mrs. Cann**

(Room 521)

dcann@valleytech.k12.ma.us

508-529-7758 x2521

**My Class Website:**

<http://mathwithmrscann.weebly.com>

\*Includes classroom documents, online textbook access and homework

**Optional Materials:**

Graphing Calculator: (Though optional, I **highly** recommend this purchase as it will be a great investment for you to have from now through your college years and beyond!) All students are encouraged to get their own (TI-84‘s are best, but TI-83’s are okay). The use of a graphing calculator will be an integral part of the course. Calculators are available for use during class, but may **not** be borrowed overnight. Several websites (try www.desmos.com) and apps exist for homework.

 **Term Grading:**

40% -- Tests

30% -- Quizzes

30% -- Homework

**Final Course Average:**

30% for T1, T2, T3 \*

5% for Mid-year Exam, Final Exam

Formula = 

**\*Final Course Averages will be based on the whole-number grade reported on Report Cards for each term.**

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**My Calculator #**

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**My Textbook #**

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**Extra Credit** is never given. Please do not ask.

**Class Participation:**

Actively engaging in class is essential to your learning and understanding of the material. Your behavior, effort and attitude will be reflected in your Conduct and Effort grades on your report card. Participation can come in many forms including: asking and answering questions, volunteering to do problems at the board, and being involved in group and partner work. Remember, in order to participate, you must be here, so try to limit unexcused absences!

**Test/Quiz Policy:**

* Expect a test or a quiz every week
* If absent the day before a test/quiz, and no new material was covered, you are still expected to take it the day you return.
* If absent on the day a test/quiz is given, you have **two weeks from the date of the test/quiz** to make it up. It is your responsibility to schedule a time after school to do so.
* There are no re-takes for any test or quiz.

*If you ever* ***need to miss an extracurricular*** *activity or practice to come in and get extra help, Mrs. Cann will gladly contact or write a letter/pass to your sponsor or coach explaining your absence.*

**Homework Policy:**

Homework will be assigned nightly. Completion of these assignments is *crucial* to your success in this course. Do your homework every night. Please refer to the Homework Rubric for more details on how homework is graded. A missed homework is a zero, even if you’ve done all of the other assignments. Getting a zero on a homework assignment can make a big difference. For example, if there are 14 regular homework assignments in a term and 6 shop homework assignments, then each regular homework is worth 4% of your homework average, while each shop homework is worth 8% of your homework average. **Do your homework every night!**

**Extra Help:**

Tuesdays & Thursdays 2:15-3:00 in my classroom (Room 521).

\*\*\*If I am unavailable a note will always be posted on my door with

an alternative option.

***COME PREPARED: Please bring your notebook, homework, and/or***

***returned tests and quizzes that need to be reviewed to make the most of***

***your time.***

***students do not have their academic materials with them.***

**Absences:**

* It is **your** responsibility to get the notes, handouts and homework you missed, even if you return to school during a shop week.
* Every class has a bin in the front of the room. Each day you are absent, a packet will be placed in the bin with your name on it containing that day’s notes, handouts and homework that you missed.
* Missed homework assignments must be passed in **the next academic school day**.
* Tests and quizzes must be made up **within two weeks** (note: two weeks includes shop time as well as academic time).

*Extended excused absences may warrant more time for make-up; see me for individual cases.*

**ACADEMIC HONESTY**

* All assignments and assessments that you do for this class are expected to be your own original work. Cheating will not be tolerated. Anyone caught cheating on homework, quizzes, or tests will be given an automatic zero. Administration, parents/guardians and applicable honors societies will be contacted.
* Cheating includes letting someone copy your work, as well as copying someone else's work or sharing answers in any form.
* If you let someone copy your work, you and that person will both be given zeros.
* Working together on classwork and homework is encouraged but copying is prohibited. Be careful when you ask another student for help. Make sure that YOU UNDERSTAND the solution. Putting an answer on your paper means that YOU understood that problem and could explain it to the entire class.

**CLASSROOM EXPECTATIONS**

1. Come to class on time and be in your seat when the bell rings (or have a pass).
2. Immediately have your homework on your desk and begin working on your “Do Now” if there is one on the board.
3. Be prepared to work every day by bringing your textbook, notebook, and pencil.
4. Raise your hand at any time if you are confused or have a question.
5. Respect each other, and the right of your classmates to learn, by using kind words and actions.
6. Respect school property and do not bring food into this classroom (unless you ask Mrs. Cann for permission). If you choose to chew gum, make sure it makes it into a trash can when you are done.
7. Cell phones are allowed as music players during independent work, but if I see you using your cellphone for something other than that during class time, you will lose the privilege of listening to music.
8. Remain in your seat until the bell rings. Do not begin packing your back while we are still working.
9. Sit in your assigned seat.

**Math skills improve with practice! Homework is a necessity.**

* *This curriculum is challenging and fast-paced. The workload is demanding. Doing the assigned homework is* ***essential*** *to success in this course.*
* Homework will be assigned every night. Expect to spend 30-60 minutes each night. You are expected to attempt every problem, or your homework grade will be lowered. Each nightly homework assignment is worth 4 points. **Shop homework (assigned over every shop cycle) will be worth 2 homework grades, or 8 points.** If you miss a homework assignment, you have only **ONE** day to make it up for **half credit only**. After that, there is no credit.
* If you are absent, it is ***your responsibility*** to get the homework assignment you missed and turn it in for full credit the following day.
* If you are absent on the last day of the previous academic cycle, you ***must*** get the assignment over your shop cycle and turn it in the day you return to academics.
* Repeated failure to complete homework on time will result in an email home.

**Homework is mandatory.**

**Homework will be assigned daily.**

**Doing the homework is vital for success in this course.**

**Homework Rubric:**

*Homework - evaluated on a scale of 0 to 4 points based on effort, correctness and completeness.*

*(Shop homework is worth 2 homework grades, or 8 points)*

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|  | **On Time (max of 4 points)** | **One Day Late (max of 2 points)** | **>1 day late** |
| ***4*** | All problems attempted, all work shown. Student has done an exceptional job. |  | 0 |
| ***3*** | Most problems attempted, most work shown.  |  | 0 |
| ***2*** | Half of the problems and/or half of the work is shown.  | All problems attempted, all work shown. Student has done an exceptional job. | 0 |
| ***1*** | Student has shown little effort, attempting just a few problems.  | Most problems attempted, most work shown. | 0 |
| ***0*** | Student has made no attempt. This includes only answers (no work shown). | Half of the problems and/or half of the work is shown.  | 0 |

 *Remember: You* ***must******attempt******all*** *of your homework problems to the best of your ability to earn full credit. Even if you do not fully understand the problem, you must try it to earn credit. If you get stuck, use your textbook or consult an online resource such as Khan Academy.* |

Syllabus Contract

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, acknowledge that on \_\_\_\_\_\_\_\_\_\_\_\_\_ I was informed of the classroom policies and procedures, including the grading system, for College Prep Algebra II.

***Math skills improve with practice! Homework is a necessity.***

* *This curriculum is challenging and fast-paced. The workload is demanding. Doing the assigned homework is* ***essential*** *to success in this course.*
* Homework will be assigned every night. Expect to spend 30-60 minutes each night. You are expected to attempt every problem, or your homework grade will be lowered. Each nightly homework assignment is worth 4 points. **Shop homework (assigned over every shop cycle) will be worth 2 homework grades, or 8 points.** If you miss a homework assignment, you have only **ONE** day to make it up for **half credit only**. After that, there is no credit.
* If you are absent, it is ***your responsibility*** to get the homework assignment you missed and turn it in for full credit the following day.
* If you are absent on the last day of the previous academic cycle, you ***must*** get the assignment over your shop cycle and turn it in the day you return to academics.
* Repeated failure to complete homework on time will result in an email home.

**Homework is mandatory.**

**Homework will be assigned daily.**

**Doing the homework is vital for success in this course.**

I have a clear understanding of the:

* grading policy (for each term as well as the final course grade formula)
* required and optional materials
* homework, text and quiz policies
* absence responsibilities
* behavior expectations including academic honesty

I was given this information so that my experience may be pleasant, beneficial and successful.

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Student Parent/Guardian*

**Calculator Contract**

**Calculator #\_\_\_\_\_\_\_\_\_\_ *TI-84 Plus* Replacement Cost: $100**
I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , understand that using a calculator includes responsibility for keeping it safe, in working condition, and will return it to its proper location in the case at the end of class for more students to use in other class periods. I accept this responsibility.

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Student Parent/Guardian*

**Textbook Contract**

**Textbook #\_\_\_\_\_\_\_\_\_\_ Holt McDougal*: Algebra 2* Replacement Cost: ≈$100**

**BVT Book Policy**

* Each student will receive a specific book assigned to him/her, this number will be recorded by the teacher.
* All students must cover their books and have their name written on the binding in large, clear letters. Name should include first initial and full last name, for example, M. Smith.
* Students may leave their books in the classroom if there is no book assignment for homework or if they plan to access it online at home\*.
* Books will be arranged by class on shelves.
* Students may only take their assigned book to use in class and/or take home. Students in violation of this policy will lose the right to leave their books on the shelf and will need to carry it with them to and from class every day.

**Online Textbook Access:** This course has online access to the textbooks. If a student decides to leave their book in the classroom, they must be sure that they will have internet access available that night.

* Any “excuses” that relate to unavailability of internet access must be verified by a handwritten and signed parent note.
* The student will still be responsible to make up the assignment and turn it in the following day.
* The student will be required to take the book home until the internet problem has been resolved.
* Any more than 3 internet-availability excuses in a school year will result in the student being required to take the book home every night that an assignment is given from the book.

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, understand that using a textbook includes responsibility for keeping it safe and covered at all times. The book I have received is in good condition, and I understand that the book must be returned at the end of the year in the same condition. I accept this responsibility and understand that if the textbook is lost or damaged, I will be responsible for paying a replacement cost for the textbook.

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Student Parent/Guardian*