

# Course Syllabus: Honors Algebra II MTH280

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**Course description:** Honors Algebra II is a two-semester, two-credit course with topics similar to Algebra II. This course will cover topics in greater depth than Algebra II (MTH271) and with less time spent in review. It meets college entry requirements and successful completion leads to Pre-Calculus. A graphing calculator is necessary. Alignment to the Iowa Core Curriculum: Understands and applies concepts of algebra, coordinates, transformation and trigonometric relationships.

**Standards:** This course will focus on Polynomial, Rational, and Radical Relationships, Trigonometric Functions, Modeling with Functions, and Inferences and Conclusions from Data.

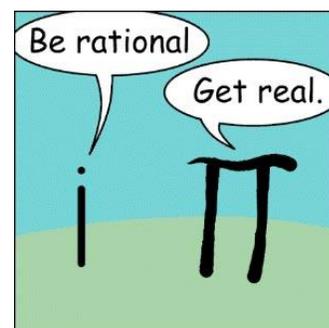
**Assessments:** Students will complete both formative and summative assessments throughout the year. These may include quizzes, homework assignments, writing reflections, or other means of measuring progress.

## Content

Functions:

*Linear, Quadratic, Polynomial, Radical,  
Exponential, Logarithmic, Rational*

Conic Sections  
Probability and Statistics  
Matrices  
Trigonometry



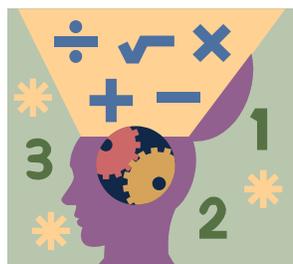
**Instructional Strategies:** A variety of strategies will be used, including (but not limited to) group work, individual work, teacher-led activities, and problem-based activities. Technology will be used throughout the course.

## Resources

1. Your **textbook**, *Algebra 2*, copyright 2015 Pearson Education
2. Either a 3-ring **binder** with an abundance of loose-leaf paper, or at least 2 spiral notebooks and a folder.
3. **Pencils and erasers** – All of your math work should be done in pencil unless I tell you otherwise.
4. **Calculator** – **A TI-84 graphing calculator is recommended. This will be the calculator you will be using throughout your time at Hempstead. (A TI-83 is also fine for this class, but you may prefer the 84 for later courses.) Please do not purchase a different model unless you consult with me first. If you already have a different calculator, let me know.**
5. Your **planner** (In case you ever need to go anywhere)

## Academic/Behavioral Expectations:

- Attendance is very important. I will be following the school attendance plan for absences and tardies. If you miss class for any reason, you will be expected to get the notes and the assignment for those days. The assignment will be posted on Canvas. Handouts will be on the shelf in the classroom. Please see another student to get a copy of any notes. If you miss a test or quiz, you will be expected to make it up the next day. If you are gone for multiple days, see me to schedule a make-up timeline.



- If you know in advance that you will be missing class see me to get any handouts or assignments before your absence. You are responsible for the learning that you miss.
- I expect you to behave as mature, responsible, respectful students. Remember to show your Mustang PRIDE! Should a problem arise with behavior, attendance, or academics, I may contact your parents and/or pursue assistance from the office.

- I will follow the conduct policies outlined in your student planner. This includes responsible use of electronic devices. Should a problem arise, I may contact your parents and/or pursue assistance from the office.
- Cheating will not be tolerated! If you are found to be cheating on any work for the class, consequences may include earning a zero, contacting your parents and Assistant Principal and/or an F for the course. We will follow the plagiarism policy outlined in your planner.
- If you start to fall behind in this class, the secret is to get help IMMEDIATELY. The longer you wait, the tougher it gets to catch up. I will be available before and after school most days. Let me know when you want to come in so you don't have to spend time trying to track me down. There will be a math teacher in C223 during A and D Study. See me for a pass if you would like to go there from study hall. You can also learn a lot by working with your fellow classmates. Working together is strongly encouraged.

### **Grading Plan**

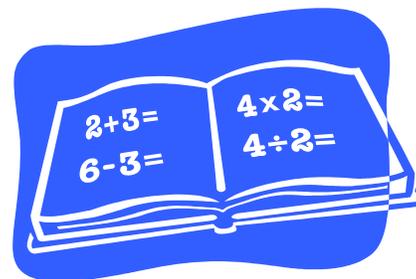
Grades categories will be weighted. Your grade will be based on the following categories:

**Tests: (60%)** Tests will always be announced in advance. Tests are designed to be completed in a single period, and no additional time will be given. Chapter tests may be retaken. You must have homework completed by the day of the test. Your final test score will be calculated by taking 2/3 of your retake score and adding 1/3 of your original score. Take the tests seriously and do a good job the first time!

**Quizzes: (15%)** These may be announced or unannounced. They are also to be completed in the allotted time.

#### **Homework & Projects (10%):**

1. **Homework:** Homework will be assigned most days. At times homework may be collected or graded.
2. **Homework Learning Checks (HLC): (10%):** HLC are problems similar to recent homework assignments will be selected to assess your understanding of current material. All work must be shown
3. **Other assessments:** Other assignments or projects will be assigned throughout the year. Information will be given at the time the assignment is made.
4. **Late Work:** Assignments can be turned in up to two days late for half credit. An assignment is considered late if it is not turned in at the time I collect it—this means that even if you turn it in during the same class period, it will only receive partial credit.



**Semester Exam: (15%)** Exams will be given during exam days during each semester, and will be worth approximately 15% of your semester grade.

**Extra Credit** - I may make small amounts of extra credit available at various times during the year – but don't count on it. Extra credit will not be available during the last week of each semester. When extra credit is assigned a due date, *none will be accepted late*.

**Grading Scale:** The DCSD grading scale will be followed as listed in your student planner

<b>A 93-100</b>	<b>B+ 87 – 89</b>	<b>C+ 77 – 79</b>	<b>D+ 67 - 69</b>	<b>F 0 - 59</b>
<b>A- 90 - 92</b>	<b>B 83 - 86</b>	<b>C 73 – 76</b>	<b>D 63 - 66</b>	
	<b>B- 80 - 82</b>	<b>C- 70 – 72</b>	<b>D- 60-62</b>	

### **Communication:**

PowerSchool will be updated frequently, so you can keep track of your grade. If you have any questions now or in the future, feel free to contact us at [zgogel@dbqschools.org](mailto:zgogel@dbqschools.org) , or [jwarnke@dbqschools.org](mailto:jwarnke@dbqschools.org) or at the phone numbers listed at the top of this syllabus.