

# SYLLABUS

## Centennial High School

### 2018-2019

|  |   |
|--|---|
| <b>Course #:</b> 5313  | <b>Teacher Name:</b> Matt Watson                      |
| <b>Course Name:</b> Honors Advanced Algebra 2  | <b>Room Number:</b> W619 <b>Phone #:</b> 763-792-5120 |
| <b>Semester 1</b> <input type="checkbox"/> <b>Semester 2</b> <input checked="" type="checkbox"/> | <b>E-Mail:</b> mmwatson@isd12.org                     |
| <b>Prerequisite:</b> Honors Advanced Algebra 1   | <b>Credit Earned:</b> ½ credit per semester           |

#### Course Description:

This advanced course prepares each student for success in a variety of post-secondary educational paths. This course is taught using SmartBoard and graphing calculator technologies. These interactive devices allow for a collaborative atmosphere that fosters higher-level thinking and analysis of algebra concepts.

#### Course Objective: Students in this course will study...

##### Honors Advanced Algebra 1

Polynomials, Absolute Value  
Solving Equations/Inequalities  
Systems of Equations and Inequalities  
Linear Functions  
Quadratic Equations and Inequalities  
Multi-variable Equations, Complex Numbers  
Radicals, Matrices

##### Honors Advanced Algebra 2

Statistics, Probability, Permutations,  
Combinations, Conic Sections,  
Trig. Functions, Polynomial Functions  
Inverse Functions, Rational Functions  
Composition of Functions, Logarithms  
Direct/Inverse Variation, Rational Exponents  
Arithmetic & Geometric Sequences and Series

#### Course Expectations:

##### Assignments

Practice is essential to learning and storing new knowledge in long-term memory. We will use a variety of modes and activities to practice each of the skills and concepts, make connections, and find patterns. I expect you to stay engaged in the learning process throughout each class period. I will also ask you to commit the time needed each night outside of class to reinforce and expand your understanding. **Each student should have a 3-ring binder or notebook/folder.**

**If you are absent: It is YOUR responsibility to get caught up as soon as possible!** If you need additional help outside of class, I am available most days before school, during LEAP, and sometimes after school. Please pre-arrange a day & time if you need assistance. Absence from class **does not** provide an excuse to skip any of the material presented. **All LATE work will receive ONLY 50% credit.** Absences mean you must **work harder** to catch up!!! Check Schoology and/or talk to the teacher to set a plan to get everything accomplished.

**Attendance: Please see student handbook.**

**Electronic Devices: As stated in the student handbook and teacher discretion inside the classroom.**

**Behavior: Be prompt. Be prepared. Pay attention. Participate. Respect others. Follow school rules.**

### **Materials Needed:**

A graphing calculator is **strongly** recommended for this course. The TI-84, TI-84+, or similar, will be adequate for use in all high school mathematics courses as well as during the next four years of college. Essentially, the graphing calculator is a 5 or 6 year investment. (If you choose to buy a Casio or HP graphing calculator, I will be very limited in what I can help you do with it. You will be expected to learn the functions on your own, as my experience is primarily with the TI-84s.

**Schoology:** Each student will need to join this class on-line through a program called Schoology. Examples of use in this class: Notes and Assignment posting, documents to download at home if a student needs to because of an absence or absences and possibly Quiz and Test completion.

**SCHOOLGY CODE:** SHNB2-MQ523

### **LEAP STATEMENT:**

LEAP hour provides all students the opportunity to receive academic support, complete missing work, and complete or re-take assessments. Test Centers are available in each building and students will be expected to complete missed tests within **TWO WEEKS of the date when the test was given**. MATH support will also be available for remediation, missed lessons, clarification. This schedule will be posted in each classroom.

**Quiz/Test Policy:** Because Centennial High School believes **all students can learn and grow**, we have adopted a course reassessment procedure. The procedure provides students the opportunity to **be re-assessed**.

**Reassessment procedure:** Each student will ALSO be given the **alternative** option of completing Quiz Corrections.

- All assignments must be completed in order to be allowed a re-assessment or quiz corrections.
- All re-assessments must be completed within two weeks of the original assessment or with teacher discretion.
- A minimum of 3 help sessions (30 minutes each) must be completed with the teacher prior to re-assessment. Each session would be centered around the particular needs of the individual student. If a student chooses quiz corrections, they will NOT need to complete the 3 sessions prior to reassessing.

### **Grading Criteria (all percentages are approximate):**

|                                      |     |
|--------------------------------------|-----|
| Homework/ Notebook/ Homework Quizzes | 25% |
| Tests/ Quizzes/ Projects             | 75% |

### **GRADING**

|   |  |
|---|--|
| A = 100 – 93  | C- = 72 – 70   |
| A- = 92 – 90 (Exemplary work – 90%-100% mastery of subject goals)         | D+ = 69 – 67   |
| B+ = 89 – 87  | D = 66 – 63 (Mediocre work – 60%-69% mastery of subject goals)           |
| B = 86 – 83 (Proficient/thorough work – 80%-89% mastery of subject goals) | D- = 62 – 60   |
| B- = 82 – 80  | NC = 59 – 0 (Unacceptable work – less than 50% mastery of subject goals) |
| C+ = 79 – 77  | NCA = (Grade reduced due to Attendance)                                  |
| C = 76 – 73 (Acceptable work – 70%-79% mastery of subject goals)          | NC\$ = (Book missing or Fees due AND No credit)                          |

**\*\*\*Any passing grade with a \$ sign by it (i.e. C\$) means that the student did pass the class, but needs to return a book or pay a fee.**