



## CHS PRIDE

Problem Solvers • Responsible Citizens • Inclusive Leaders • Dedicated Learners • Effective Communicators

### Advanced Mathematics

Mr. Briones

#### Course Description:

Advanced mathematics is for the student who would like a solid preparation for college mathematics. It presents a course in precalculus topics. It is intended for above average students who have completed two years of high school algebra and one year of geometry. Algebraic and geometric concepts are integrated with algebraic concepts in the first part of the course. Trigonometry is covered during the second half of the course.

Advanced Mathematics provides students with an in-depth study of families of functions including polynomial and rational, exponential and logarithmic, and trigonometric and circular functions; conic sections, parametric equations, complex numbers, vectors, sequences and series, introduction to limits and introduction to calculus.

This class requires more individual study time and an in-depth review of basic math concepts. The difficulty level of the material increases significantly throughout the semester. Students are expected to participate actively in the development of all concepts. Students should be prepared to be challenged and work hard. Students are encouraged to form study groups with peers, practicing beyond daily assignments in an effort to master skills.

- Materials:**
- 1) Math Textbook: **Advanced Mathematics**
  - 2) One "Spiral-bound" notebook for **"Class Notes"**
  - 3) One "three-ring binder" with 5 dividers. (You are required to maintain a neat, organized, and legible binder. Your binder needs to contain the syllabus, starters, homework, classwork, tests/quizzes, and handouts. Binders and Notebook will be collected and checked periodically.)
  - 4) Pencils with good quality erasers, lined papers (both graphing paper and loose-leaf binder paper will be needed), and red pens (for corrections). **STRICTLY NO PENS!**
  - 5) Recommended calculator: TI-83, TI-84, or TI-84 Plus (Students will use this calculator in Algebra 2 Trig/Precalculus/Calculus/AP Statistics/college math courses).
  - 6) Class Website: [www.mathbriones.weebly.com](http://www.mathbriones.weebly.com)

#### Classroom Guidelines/Procedures:

- 1) Obey all school and classroom rules and procedures. School handbook consequences will be enforced. Participation points will be given to those who are following procedures.
- 2) Be respectful to those around you. Treat others the same way you want to be treated. Have a friendly behavior at all times. Inappropriate conduct or language in the classroom will not be tolerated. This includes abusive, offensive, insulting, name-calling, teasing, profane or demeaning language, not following instruction/direction the first time it's given, etc.
- 3) Enter room quietly, prepare homework to be corrected, and begin work that is on the overhead or board. You are expected to have your binder open and all needed materials on your desk. You should also have any due assignments for that class meeting on your desk (i.e. homework, projects, etc.). If the class is correcting homework, have your book or homework materials on your desk along with your **CORRECTING PEN (RED or any cool color!)**.
- 4) Be on time. When door closes, you will be tardy.
- 5) Be seated, be quiet, and work once you enter the classroom.
- 6) Come to class prepared—bring your textbook, notebook, papers, mechanical pencil (no sharpening of pencils in class due to my allergies), good quality eraser, completed assignments, and other supplies/equipment as assigned to class every day.
- 7) Eating, drinking (except bottled water with cap), and chewing gums are **NOT** allowed in the classroom.
- 8) No personal grooming in class—do that in the rest room.
- 9) Keep your desk, textbook and other school property clean at all times. You'll be assigned your desk and it is your responsibility to keep it clean (including trash within your area).
- 10) I'm not a psychologist who can deal with your behavior issues, so please do behave properly.
- 11) Follow adults' direction the first time without complaining.

- 12) As you enter the classroom in an orderly manner, check the board/screen for starter. Immediately begin this assignment as soon as you are seated in your assigned seat. If you had homework the previous night, have it out and ready to check.
- 13) Please raise your hand and sit quietly to ask/answer a question, to comment, or to get permission to leave your desk. Do not blurt out answers or questions.
- 14) I will dismiss you at the end of class, not the bell so please do not line up at the door!

### **General Comments:**

- Mathematics is a cumulative subject. Do not expect to understand subsequent material if you have not mastered current material.
- The best way to ask a question is something like: “*How did you get from the second step to the third step?*” or “*What does it mean to complete the square?*” Asseverations like “*I don’t understand*” do not help me answer your queries.
- All electronic devices such as cell phones, ipods, ipads, mp3, etc. must be in non-audio form and **OUT OF SIGHT**, while you are in this classroom. Otherwise, they will be confiscated.
- Your conduct in this classroom is expected to be respectful of other students and the instructor at all times. Disruptive behavior will result in removal from the class.
- **COME TO CLASS – EVERY class!** **Late work will not be accepted** unless your absence is excused.
- **DO READINGS AND HOMEWORK AS ASSIGNED.** It is expected you will be prepared for each class. You will not understand the material unless you study your notes and read the book.
- Please make every effort to organize your materials and establish good study habits early.
- **WORK HARD.** It is not enough to read the chapter. You must take notes from the assigned lessons and try to **LEARN** before coming to class. Once in class, it is not enough to just sit there (fooling around or socializing!!). Pay attention, take notes, and ask questions. It is strongly recommended that you review your notes daily. For some material you may need to study it more than once for it to really sink in. Much of the information we will encounter in Advanced Mathematics amounts to educated common sense. While some of the material will seem easy, it is important that you develop a study habit to assist you when the material becomes more difficult. **READ YOUR TEXT** each night and work the handful of problems that are assigned. Keep your homework neat and organized for grading and for your review—the practice is not meant to be busy work or a means to a grade, it is there to help you learn the lessons! Do not put off your problems until they are due as you will get overwhelmed trying to catch up. **ASK QUESTIONS** and be an active participant in class... we need to work together to be successful—Advanced Mathematics is not a spectator sport!
- Many students with histrionic abilities come to me at the end of the semester telling me that they need the class to graduate, that this is their last class; that they need a good grade in order to keep or get a scholarship, blah blah blah... **Please don’t bother me with this!** Every student will pass the class just like every other student: ***through hard work and through passing the exams.***
- **ACADEMIC INTEGRITY.** It is expected that all the materials submitted for this course are the actual work of the individual whose name appears on the materials. Violations of this policy include but are not limited to cheating (*receive or provide information during a test; receive or provide information on tests during an earlier period; use unauthorized material on tests*), plagiarism, copying answers and passing off as your own work, allowing other students to use your work, **storing notes on a calculator**, any communication with another person other than the teacher during an individual test or quiz. If you are caught participating in an act of academic dishonesty/cheating, you will receive a F in the course and you will be subjected to disciplinary action.

### **Course Requirements:**

1. Homework will be assigned each day. It is due the next class period. No later homework will be accepted. If you are absent, it is your responsibility to obtain assignments both in class and homework, from the daily journal. I will not accept make-up work for unexcused absences. All submitted assignments, tests, quizzes, etc. should be properly labeled (title, page numbers & problem numbers, name, period, and date).
2. Quizzes are given regularly so always be prepared. Long tests will be announced several days in advance. If you are absent the day of the test, you must make up the test the first day you’re back. If your absence is unexcused, you will **NOT** be able to make up the test. If you are absent the day before the test, you will still be expected to take the test.

## TARDY Policy

- ☑ If you're not seated in your assigned seat when the bell rings, then you are tardy.
- ☑ Automatic 5-minute detention **AFTER CLASS** and additional minute/s thereafter
- ☑ 1<sup>st</sup> tardy: at least 5-minute detention
- ☑ 2<sup>nd</sup> tardy: 10-minute detention
- ☑ 3<sup>rd</sup> tardy: 15-minute detention
- ☑ And so on... (Fighting through the door, entering inappropriately, being disrespectful or arguing with me = automatic 30-minute to 1-hr detention depending on situation)
- ☑ 4<sup>th</sup> tardy: Referral
- ☑ Students tardy to class do not have the option to make-up the Starter for that day

## Make-Up Work Policy

- ☑ The student has 2 days upon return to turn in completed make-up work. The assignment for the make-up work may be found on the HW Log. In addition, the student should check with the teacher to schedule any missed classwork, quizzes, tests, inquire about additional projects or information that may have been given, and copy the missed notes. I will only discuss make-up work **OUTSIDE** of regular class time (i.e. brunch, lunch or before/after school).
- ☑ No make-up quiz or test will be allowed when the quiz or test had been handed back to students.
- ☑ If a student does not show up on a schedule makeup test/quiz, he/she will automatically get a **ZERO**.

## Academic Integrity

- ☑ Plagiarism, copying answers and passing off as your own work, allowing other students to use your work, receiving or providing any information during a test, providing test questions and answers to students from other periods, storing notes on a calculator, any communication with another person other than the teacher during an individual test or quiz.
- ☑ **Cheating** is considered a top offense in my class. Cheating will result in a grade of **ZERO** for all participants, a referral, and may prevent a student from passing the class. **NOTE:** Communication of any kind during a quiz or a test will be considered cheating—**NO EXCEPTIONS!!!** I will also enforce our school's "Guidelines for Student Behavior."

## Grading Policy

- ☑ 80%: Tests, Quizzes, and Projects
- ☑ 20%: HW, CW, Participation, etc

### Semester's Grade:

= 40% (1<sup>st</sup> Quarter's Grade) + 40% (2<sup>nd</sup> Quarter's Grade) + 20% (Final Exam)

90 - 100 = A  
80 - 89 = B

70 - 79 = C  
60 - 69 = D

59 - below = F

## Homework, Class work, Test, or Quiz format

- Should be done **neatly** with the following parts:
  - 1) Name
  - 2) Date
  - 3) Period
  - 4) Assignment #
  - 5) Page
  - 6) Problem Numbers
  - 7) Original problem and solution with all steps shown
  - 8) **Circle** or **box** or **highlight** final answers.

- **Start all new assignments on a clean sheet of binder paper.**

HW #1.5

Page 100 #1-5, 17-21, 36-41

Josh Moore

8/28/2013

Period \_\_\_\_

## REMINDERS:

- Instructional Period: 7:10 a.m. – 3:10 p.m.
- Electronic devices are **NOT** to be used in class during the instructional period, otherwise, they will be confiscated.

~~----- PLEASE ----- CUT ----- HERE -----~~

*I have read the classroom rules, expectations, and procedures and I wish to be a positive influence in Advanced Mathematics' class by faithfully following every rule, every single day. I am aware that if I cannot behave myself so that everyone can learn, I will be referred to the office immediately for disciplinary action.*

Student's Name (**PRINT**): \_\_\_\_\_ Period: \_\_\_\_\_

Student's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

E-mail: \_\_\_\_\_

*I agree to hold my child accountable for his/her actions in Advanced Mathematics' class and to support any consequences assigned by the teacher or an administrator.*

Parent's/Guardian's Name (**PRINT**): \_\_\_\_\_

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

E-mail: \_\_\_\_\_

Home phone: \_\_\_\_\_ Cellphone: \_\_\_\_\_

Work phone: \_\_\_\_\_