

Challenge Early College High School: A Small School with Big Ideas!

AMDM

Advanced Mathematical Decision Making Semester One Syllabus 2010

Welcome to AMDM! This is an exciting and dynamic course in which we will work together to explore ways that math is used in the “Real World”. This course requires that you use all the skills learned in Algebra I, Geometry, and Algebra II in order to investigate and solve application problems. We are very excited about this class and hope to have an amazing year.

First Semester Topics Covered / Units of Study

- **Unit I:** Analyzing Numerical Data
 - Using Ratios, Rates, and Percents
 - Using Averages, Weighted Averages, and Indices
 - Estimating Large Numbers
 - Using Check Digits to Validate Identification Numbers

- **Unit II:** Probability
 - Determining Probabilities
 - Everyday Decisions Based on Probabilities
 - Expected Value

- **Unit III:** Analyzing Statistical Studies
 - Case Study Analysis
 - Univariate Data
 - Bivariate Data
 - Statistical Investigations
 - Statistical Analyses
 - Sources of Variability

EXPECTATIONS FOR STUDENTS

You will participate.
You will work with other people.
You will share.
You will make written and oral presentations.
You will be on task.
Your work will be of the highest quality.

Grading:

You will have at least 3 major grades and at least 6 daily grades each 9-week grading cycle. Daily work may include quizzes, in-class assignments, and homework. Major grades include unit tests as well as projects and in-class presentations. Each student’s semester grade will be calculated as follows:

First 9-weeks 40% ---Second 9-weeks 40% ---Final Exam 20%

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Attendance / Missed Assignments:

AMDM is a rigorous course and much of what we learn in this class will come from in-class projects, group discussions, and collaborative projects. *Regular attendance in this class is crucial to students' success.* In the event of an absence, it is the student's responsibility to obtain any missed / make-up work and turn it in within the same number of days that he / she was absent. If a test or major project is missed, that student will be responsible for completing that work upon returning. If an absence occurs the class period before a test or project, the student will be required to complete the test or project on the assigned day since all major grade assignment dates are given at the beginning of each unit.

Supplies:

- 3-Ring Binder Devoted to AMDM (recommend 2.5inch-3inch)
- Notebook and Graph Paper
- Dividers (at least 5 tabs)
- Pencils
- Set of 8 colored pencils (optional but helpful for graphing and shading)
- Highlighters
- **FLASH DRIVE**

Classroom Expectations:

- **Come Prepared:** Be ready to learn. Have paper, pen/pencil, planner, and homework.
- **Be Respectful:** Refrain from derogatory language or swearing, don't speak out of turn; be polite.
- **Engage in Learning:** Participate, pay attention, take notes, and complete class assignments.
- **Show Responsibility:** Complete assignments, turn in work on time, do your own work
- **Cheating** of any kind will not be tolerated. Any student found guilty of cheating will receive an automatic zero on the assignment, test, or quiz. The parent will be notified. The assigned administrator may also be contacted.
- **Sleeping**, or the appearance of sleeping, will not be allowed.

Contact Information:

To contact your AMDM teacher use the following links www.challengehs.org→Faculty and Staff→Warren Morales. In addition the school phone number is **713-664-9712**. **ALSO** it is highly important that we have your correct contact information, so please complete and return the parent information form. You may also email your teacher to make sure we have your correct email.

We look forward to an amazing year!

Mr. Morales