

Advanced Mathematical Decision Making Syllabus
Fall 2017 - Room 4218

Prerequisite: Successful completion of Advanced Algebra/Algebra 2.

Course Description: Advanced Mathematical Decision Making (AMDM) is a fourth-year course to follow Coordinate Algebra, Analytic Geometry, and Advanced Algebra. Its primary purpose is to prepare students for college majors that may not require calculus, for technical training, or for a range of career options. This course may also be useful to other students as an elective.

AMDM is designed to help students develop college and career readiness skills such as conducting research, working individually and collaboratively, justifying opinions with evidence, preparing written reports, and making oral presentations. With purposeful teacher guidance, students are expected to develop self-direction and to assume increasing responsibility for meeting high standards.

The primary focal points of AMDM include the analysis of information using statistical methods and probability, modeling change and mathematical relationships, mathematical decision making in finance, and spatial and geometric modeling for decision making. In AMDM, students learn to become critical consumers of the quantitative data that surround them every day, knowledgeable decision makers who use logical reasoning, and mathematical thinkers who can use their quantitative skills to solve problems related to a wide range of situations. They develop critical skills for success in college and careers, including investigation, research, collaboration, and both written and oral communication of their work, as they solve problems in many types of applied situations.

As students work with these mathematical topics, they continually rely on mathematical processes, including problem solving techniques, appropriate mathematical language and communication skills, connections within and outside mathematics, and reasoning. Students also use multiple representations, technology, applications and modeling, and numerical fluency in problem-solving contexts.

Course Outline:

- Unit 1: Analyzing Numerical Data
- Unit 2: Probability
- Unit 3: Statistical Studies
- Unit 4: Using Recursion in Models and Decision Making
- Unit 5: Using Functions in Models and Decision Making
- Unit 6: Decision Making in Finance
- Unit 7: Networks and Graphs

Required Materials: 2-inch 3-ring binder, paper and dividers (6).

Notebook: Student are expected to keep an organized notebook/binder that will be a collection of the syllabus, classroom policies and procedures, mathematics standards, assessments, and assignments done during each unit of study. We will discuss the layout, grading and examples of notebooks in further details in class.

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<u>GRADING POLICY</u>	<u>GRADE WEIGHTS</u>
A = 90 - 100 B = 80 - 89 C = 70 - 79 F = 69 and below	Formative = 50% <ul style="list-style-type: none">• Classwork/Assignments/Homework Summative = 30% <ul style="list-style-type: none">• Quizzes• Unit Tests Final Exam = 20%

Classroom Policies/Procedures:

1. Come to class on time, prepared, and eager to learn. This means bring your notebook, paper, and pencils to class EVERY DAY.
2. Be respectful of yourself and others.
3. Stay on task and in your seat until the bell rings.
4. Follow all school rules as they also apply in this classroom.
5. No food or drink is allowed in my class. Sealable water bottles are acceptable.
6. Students are expected to adhere to the cell phone policy set forth by the school and classroom teacher. If a student does not adhere to the policy, the student will be referred to the discipline administrator for insubordination.
7. Students are expected to dress appropriately for school and without causing a disruption to the learning environment. If a student causes a distraction, that student will be warned by the classroom teacher. In doing so a 2nd time, that student will be referred to the discipline administrator for insubordination.

Failure to comply with the above classroom rules will result in the following consequences:

First Offense: Verbal warning

Second Offense: Parent contact/**Teacher Issued Detention: (15 minutes)**

Third Offense: Parent conference/**Teacher Issued Detention: (30 minutes)**

Fourth Offense: Referral to administrator

All school rules and consequences as stated in the WBHS student handbook will be adhered to and enforced in the classroom. Please see the handbook for a complete list of all rules and consequences. It will be very difficult to be successful in this class without participating in class discussions and group assignments. It is imperative that you come to class each day ready to participate and contribute.

Make-Up Work: When you are absent, it is **YOUR RESPONSIBILITY** to find out what you missed. Every day is important in our classroom, so you must make up your work. I will not seek you out to tell you what we did in class. It is your responsibility to find out what you missed.

****You have up to 1 week to turn in make-up work the day you return from an absence.***

Cheating/ Plagiarism: If any student is caught cheating or plagiarizing any assignment, he or she will receive a zero for that assignment. Furthermore, additional disciplinary action may be taken by the instructor of this course.

Winder-Barrow High School is an active participant in the "Bring Your Own Technology" (BYOT) initiative. As such, students are encouraged to utilize their devices when deemed appropriate by the classroom teacher.

Parent Portal: Parent involvement in a child's academic success is important. Parents may access and monitor grades and attendance via "Parent Portal". Please contact the school board office (PDC) to sign up.

KEEP THIS FOR YOUR RECORDS

Dear Parents,

It is our honor to be teaching your child! We are excited about the upcoming semester and look forward to working with your student in AMDM this year. Please feel free to contact us with any questions regarding the class or your child's progress in the class. You can contact us via the methods below.

Thank you for your support and cooperation!

WBHS: 770.867.4519

william.defoor@barrow.k12.ga.us Google Voice: 770.299.9808

tracy.wright@barrow.k12.ga.us

Please feel free to join Remind by texting @9gf3f to 81010 and receive important text messages about class assignments.

Extra Help: Extra help is available before or after school during a time that will be determined on a weekly basis and posted in my classroom. Please make sure your child sees me to schedule a time to come in for extra help.

DETACH AND RETURN

We understand the syllabus, policies, and expectations for AMDM.

Print Student Name	
Student Signature	
Student Gmail	@barrowcountyschools.org
Parent Signature	
Parent Email	
Parent Phone Number	

This syllabus is subject to change without prior notice.