



Richmond County School System
The Academy of Richmond County
Course Syllabus for Advanced Mathematical Decision Making

Course: Advanced Mathematical Decision Making

Teacher: Deirdre Hutson, Ed.D.

Classroom #: 515

Number of Credits: One Mathematics Credit

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Planning Period: Seventh Period

Technology: District-issued Laptop

Course Overview:

Advanced Mathematical Decision Making (AMDM) is designed to follow the completion of Advanced Algebra (or the equivalent). The course will give students further experiences with statistical information and summaries, methods of designing and conducting statistical studies, an opportunity to analyze various voting processes, modeling of data, basic financial decisions, and use network models for making informed decisions.

Instruction and assessment should include the appropriate use of manipulatives and technology. Topics should be represented in multiple ways, such as concrete/pictorial, verbal/written, numeric/data-based, graphical, and symbolic. Concepts should be introduced and used, where appropriate, in the context of realistic phenomena. The identified prerequisite for this course is Advanced Algebra: Concepts & Connections.

| First Semester | Second Semester |
|---|---|
| <ul style="list-style-type: none">➤ Unit 1: Using the Power of Mathematical Reasoning to Make Decisions➤ Unit 2: Using Probability to Make Decisions➤ Unit 3: Using Statistical Studies to Make Decisions | <ul style="list-style-type: none">➤ Unit 4: Using Mathematical Models to Make Decisions➤ Unit 5: Using Vectors and Matrices to Make Decisions➤ Unit 6: Using Network Models to Make Decision➤ Unit 7: Culminating Capstone Unit (applying concepts in real-life contexts through a culminating interdisciplinary unit) |



Grading Procedures: Grades will be calculated using the following percentages:

Report Card Grades

| | |
|--|-------------|
| • Major Assessments (Tests, Quizzes, Projects, etc.) | 60% |
| • Minor Assessments (Homework, Classwork, etc.) | 40% |
| TOTAL | 100% |

Final Semester Grades

| | |
|---------------------|-------------|
| • Semester Average | 90% |
| • Final Examination | 10% |
| TOTAL | 100% |

Grading Scale

A=90-100

B=80-89

C=75-79

D=70-74

F=0-69

Required Examination (End of Course, AP, etc.): Course Examinations

Classroom Expectations and Course Requirements:

1. All students are expected to come and be prepared for class every day. Young men should not sag their pants/shorts while on campus. Cell phones and all unauthorized electronic devices should not be on or visible while on school campus. This includes while in room #515.
2. All students are required to have a class notebook/folder. Notebooks/folders should contain the following: Class Notes, Homework, Classwork/Assignments, and Assessments with corrections. Notebooks must be kept up to date.
3. Graphing/Scientific calculators are not required but students are urged to obtain at least a scientific calculator. This calculator will be used for the rest of your high school career and possibly also in college. Although scientific and/or graphing calculators are available for classroom use, students may wish to purchase these items to use when completing assignments outside of class. DESMOS, which is an online calculator, will be used.
<https://www.desmos.com/calculator>
4. All students are required to adhere to the school-wide tardy policy by reporting to class on time and quietly be seated.

Materials Needed (Recommended)

Each day, students are required to report to class prepared with the following items:

Pencils with erasers
Loose leaf paper
Notebook/Folder
Scientific or Graphing Calculator or Access DESMOS
District-issued Laptop



Tutoring: Tutoring is time dedicated to assist students with academic support. Tutoring will Monday – Wednesday from 3:15 pm – 3:45 pm by appointment.

School/Classroom Rituals and Routines

1. All students are expected to be in his/her seat and ready to begin the DO NOW activities.
2. Students will review the assignment from previous meeting day and submit.
3. Teacher will introduce the new lesson of the day.
4. Students will review the lesson of the day and will be given an assignment.
5. Students will be allowed to work together and/or ask questions if necessary.
6. There will be a summative activity as a closure.
7. There will be no passes given during the first 10 minutes and the last 10 minutes of class.
8. All students are expected to have his/her book/laptop, notebook/folder, and appropriate tools at all times.
9. **Cell Phone Policy: The following will NOT be allowed in the classroom: the use of electronic devices including cell phones/tablets, etc. No unauthorized electronic devices will be allowed.**
10. There will no eating, drinking, sleeping, heads on desks, rude disruptive behavior, and studying subjects or completing assignments other than Advanced Mathematical Decision Making.
11. All assignments and work will be uploaded and submitted via Canvas by the designated due dates or deadlines included on the posted assignment. Late Work Policy: Work turned in late will lose 5 points per day for up to 5 days. Late work will not be accepted past the 5th day.
12. When engaging with your class or teacher in any way on Canvas, students must adhere to all Acceptable Use Policy guidelines and school disciplinary guidelines.
 - a. Students must ALWAYS keep all Canvas participation productive and school appropriate.
 - b. There will be absolutely no exceptions to this, and disciplinary action will result from any violation of this.
13. If a student experiences ANY issues or trouble at all with their internet, device, or any technology they are using to complete PowerUp Asynchronous Learning Days, they MUST contact the teacher IN ADVANCE of due dates notifying and explaining the issue.
 - a. If contact is not made PRIOR to due dates, etc., assignments will still be counted late, and students will not be excused from the work.
 - b. They may contact the teacher via: Email or call and leave a message at ARC.
 - c. Students can also show evidence that they have contacted Helpline (706) 826-1103 or have emailed IT at ithelpdesk@boe.richmond.k12.ga.us (IT Support Services).
14. All students will respect the rights of ALL other students, the teacher, and will adhere to the rules and regulations of The Academy of Richmond County and the Richmond County School System.

Consequences

1. Warning
2. Student/Teacher Conference
3. Note/call home/email
4. Parent/Teacher Conference
5. Referral

***Note: Depending on the severity of the infraction, the consequence can be escalated immediately.**



PARENT ACKNOWLEDGEMENT

Instead of returning a signature form to acknowledge parents have received the syllabus, please follow this link or the QR code - to provide your digital signature and information. This information is sent only to the teacher.

<https://forms.office.com/Pages/ResponsePage.aspx?id=QC2yMGJzF0-DqSUwkntvZYYIXTxYBw1FkKwf15AZJNtUM1JGQUILNk1BTVRSMkNHUjdHMjkyRFE3Uy4u>

AMDM Syllabus Questionnaire
2025-2026 (Copy)

