

Gainesville High School

COURSE SYLLABUS

Advanced Mathematical Decision Making
Coach DeFoor

Fall Semester 2011
Room 302

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|------------------------|--|
| Email Address | mark.defoor@gcstk12.net |
| Teacher Support | I will be available each morning upon the student request. Additional support is provided each morning and afternoon in the learning labs. Check the learning lab schedule for exact times and room numbers. |

COURSE DESCRIPTION

Advanced Mathematical Decision Making (AMDM) is a mathematics course that follows Algebra I, Geometry, and Algebra II. The course emphasizes statistics and financial applications, and it prepares students to use algebra, geometry, trigonometry and discrete mathematics to model a range of situations and solve problems. 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. Pre-requisite is successful completion of Accelerated Math II or Math III. AMDM does not have an End Of Course Test (EOCT).

COURSE CURRICULUM CONTENT

| GPS REQUIREMENTS | UNITS/TOPICS |
|---|---|
| The GPS (Georgia Performance Standards) can be accessed online at: https://www.georgiastandards.org | <ol style="list-style-type: none">1. Analyzing numerical data2. Probability3. Statistics4. Decision making5. Finance6. Networks and graphs |

INSTRUCTIONAL MATERIALS AND SUPPLIES

| Published Materials | Instructional Supplies |
|--|---|
| <i>Advanced Mathematical Decision Making workbook (semester 1 and 2)</i> | <ol style="list-style-type: none">1. Pencil2. Paper3. 3-ring Binder with Dividers4. Graphing calculator (TI-83) – provided by school |

EVALUATION AND GRADING

| Assignments | Grade Weights | Grading Scale |
|---|--|---|
| Benchmark Assessments Unit Tests Performance Essay Homework Class Work Quizzes Research Project | Formative Assessments (45%) Tests/Quizzes (30%) Research Project (25%) | A: 90 and above B: 80 - 89 C: 70 - 79 F: 69 or below |

HONOR CODE POLICY

All GHS students will strictly adhere to the GHS Honor Code which is posted in the GHS Student Handbook.

FINAL GRADE CALCULATION

| Formative Assessments (45%) | Tests/Quizzes (30%) | Research Project (10%) |
|---|--|--|
| Formative assessments include but may not be limited to class assignments/projects which will require each student to use critical thinking, scholarly research and the ability to work in a group environment. | Tests and or quizzes will generally be administered at the end of each unit. | The research project is a detailed writing assignment requiring students to address a "topic of interest" in essay form. A detailed outline of the project is documented in the research project rubric. |

ATTENDANCE POLICY

This course follows GHS policies for class attendance that are detailed in the GHS Student Handbook. Students who are granted an excused absence for days missed will be subject to the following:

- **All pre-assigned work will be due on the day of a student's return from an absence.**
- **For assignments which did not have a pre-assigned due date during the time of the student's absence,** students will be given five days to arrange for make up work or follow other arrangements granted by the course instructor.

EMERGENCY PROCEDURES

In the event of an emergency, students will follow the commands of the teacher, adult or any school official. In the case of fire, students will evacuate according to school fire drill procedures. In the case of a tornado, students will sit against the interior walls of the class room while following any additional instructions. In case of an earthquake, students will place themselves under a desk and follow any additional instructions provided by the teacher.

TUTORING/STUDY SESSIONS

Tutoring will be provided on an as needed basis. It is the desire of the instructor of this course to help you outside of normal classroom hours. I will be happy to accommodate your needs to the best of my ability.

Group study sessions may be scheduled by the instructor on an as needed basis to prepare for chapter tests and final exams.

PARENTS

Please sign below to indicate that you have read and understand all of the information in this syllabus. If you have any questions or concerns please email me and I will respond as soon as possible. Please note that this syllabus is merely a guide for the course outlined in the course description. Policies and procedures can be changed without notice at the discretion of the instructor and/or Gainesville High School.

I have read and I understand the syllabus for AMDM Fall 2011.

Student's name: _____

Student's signature: _____

Parent's name: _____

Parent's e-mail: _____

Parent's signature: _____