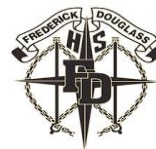


# 2016-2017 COURSE SYLLABUS

## Advanced Mathematical Decision Making



**Teacher:** Ms. V. E. Watts

**Room Number:** 341

**Semester:** Fall 2016

**Textbook:** Advanced Mathematical Decision Making

**Phone Number:** 404-802-3100

**Email:** Veronica.Watts2@atlanta.k12.ga.us

**Tutorial Days:** Wednesdays

**Tutorial Hours:** 3:30pm-4:30pm

**Tutorial Location:** 341

### Course Description:

This is a new course adopted by the state of Georgia to enable seniors to gain a 4th Math credit. AMDM sets out to answer the question “When will I use this?” In this course, students will be taking knowledge learned in their three previous years of math and applying it to real world scenarios. Most of the content will be taught in a “hands-on” manner. Students will be completing many mini and major projects throughout this course. Concepts that will be covered in this course are graphing, personal finance, estimation, data and statistics, research applications, and geometry.

**Prerequisite:** Successful completion of CCGPS Algebra II, Advanced Algebra, Accelerated Geometry B/Algebra II or Accelerated Analytic Geometry B/Advanced Algebra.

### Course Content Standards:

Please refer to the following link for all of the course standards.

<https://www.georgiastandards.org/Georgia-Standards/Frameworks/Advanced-Mathematics-Decision-Making-Standards.pdf>

### Course Outline:

<b>Week 1:</b>	<b>Analyzing Numerical Data (Estimating Large Numbers)</b>
<b>Week 2:</b>	<b>Analyzing Numerical Data (Using Ratios)</b>
<b>Week 3:</b>	<b>Analyzing Numerical Data (Indices Using Weighted Sums and Averages)</b>
<b>Week 4:</b>	<b>Analyzing Numerical Data (Validating Identification Numbers)</b>
<b>Week 5:</b>	<b>Probability (Determining Probabilities)</b>
<b>Week 6:</b>	<b>Probability (Determining Probabilities)</b>
<b>Week 7:</b>	<b>Probability (Determining Probabilities)</b>
<b>Week 8:</b>	<b>Probability (Everyday Decisions Based On Probabilities)</b>
<b>Week 9:</b>	<b>Probability (Everyday Decisions Based On Probabilities)</b>
<b>Week 10:</b>	<b>Probability (Everyday Decisions Based On Probabilities)</b>
<b>Week 11:</b>	<b>Probability (Expected Value)</b>
<b>Week 12:</b>	<b>Statistical Studies (Statistical Investigations)</b>
<b>Week 13:</b>	<b>Statistical Studies (Statistical Investigations)</b>
<b>Week 14:</b>	<b>Statistical Studies (Analyzing Data)</b>

<b>Week 15:</b>	<b>Statistical Studies (Analyzing Data)</b>
<b>Week 16:</b>	<b>Statistical Studies (Analyzing Data)</b>
<b>Week 17:</b>	<b>Using Recursion in Models and Decision Making (Relationships in Data)</b>
<b>Week 18:</b>	<b>Using Recursion in Models and Decision Making (Recursion in Exponential Growth and Decay)</b>

### **Evaluation and Grading:**

Course Components	Weights	<table><tr><th colspan="2">Grading Scale</th></tr><tr><td>100-90</td><td>A</td></tr><tr><td>89-80</td><td>B</td></tr><tr><td>79-70</td><td>C</td></tr><tr><td>69-0</td><td>F</td></tr><tr><td>Not Evaluated</td><td>NE</td></tr></table>		Grading Scale		100-90	A	89-80	B	79-70	C	69-0	F	Not Evaluated	NE
Grading Scale															
100-90	A														
89-80	B														
79-70	C														
69-0	F														
Not Evaluated	NE														
Learning Skills (interactive notebook and executive function skills including, timely assignment completion, organization, sustained attention)	10%														
Classwork and Participation	30%														
Homework	10%														
Lesson Quizzes	20%														
Unit Tests (or Performances)/Projects	30%														
TOTAL	100%														

**Campus Portal for Parents and Guardians:** Visit <https://ic.apsk12.org/portal> to view class schedules, attendance records and grades. To activate your account, visit the school to receive your login (activation key).

### **Required Materials:**

**Scientific calculator (graphing recommended), graph paper, PENCILS, binder, loose leaf paper**

### **Classroom Expectations:**

- Attend class daily. This is critical to your success!!
- Respect your teachers, other students, yourself, and your school.
- Be on time, prepared and organized.
- Stay on task and accept responsibility for your learning.
- Work cooperatively and productively with all group members on all group activities and presentations.
- Always do quality work; give 100% every day
- Seek extra help (from me or from peers) if you are having trouble.
- Follow all school rules. Appropriate school behavior is expected at ALL times.

**LATE ASSIGNMENTS:** It is important that students are responsible and meet established due dates for assignments. Late is defined as anytime work is submitted after the assignment has already been collected by the teacher.

**MAKE-UP AND MISSING ASSIGNMENTS:** Students with an excused absence will be expected to submit missed work on or before the third class meeting after the absence. Pre-announced assignments are due upon return to school.

**School-wide Expectations:**

**DEFICIENCY REPORTS:** Parents and guardians are informed when students are making unsatisfactory progress in classes. Poor performance will be reported to parents and guardians as soon as problems are evident. Deficiency reports with plans for remediation will be written for all students making unsatisfactory progress, and parent-guardians conferences must be scheduled. Unsatisfactory grades should never come as a surprise to parents, guardians, or students. Teachers will:

- Contact parents and guardians early in the semester if academic, attendance, or behavioral difficulties are apparent.
- Notify the counselor, SST/RTI Chair, and the academy leader of serious problems that are affecting classroom performance.

**ATHLETIC ELIGIBILITY:** Students wanting to participate in athletic programs governed by the GHSA and extracurricular activities must meet eligibility requirements to participate. The Athletic Director (and the Extracurricular Activities sponsors) will collaborate with teachers to monitor and to identify students in danger of failing courses. All faculty members will be given a master list of students participating in extracurricular activities and athletics under the auspices of the GHSA.

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**Student Signature and Date**

**Parent-Guardian Signature and Date**