N122

AQR SYLLABUS

COURSE DESCRIPTION

AQR is a fourth-year mathematics course that equips students with a mathematical process to arrive at realworld decisions. In AQR, students will continue to build on the K-8, Algebra I, Algebra II, and Geometry foundations as well as expanding the understanding through other mathematical experiences. The primary focal points of AQR 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 AQR, 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. As students work with these mathematical topics, they continually rely on mathematical processes, including problem- solving techniques, appropriate mathematical language and communications skills, connections within and outside mathematics and reasoning. Student will also use multiple representations, technology, applications and modeling, and numerical fluency in problem-solving context.

CLASS PROCEDURES

When you enter class, please open your laptop and log into CANVAS. This course is problem-based, studentcentered and dependent upon discussion so be prepared to work on problems and share solutions with a partner, group or class.

REQUIRED DAILY MATERIALS

- LAPTOP (CHARGED) WITH INTERNET ACCESS
- SPIRAL NOTEBOOK
- PENCIL/PEN
- CALCULATOR (VIRTUAL OR HANDHELD)
- PATIENCE AND A GREAT ATTITUDE

CLASSROOM EXPECTATIONS

- BE ON TIME
- BE PREPARED
- BE RESPECTFUL
- BE RESPONSIBLE
- BE ORGANIZED

CLASS LEARNING OBJECTIVES

- ANALYZING NUMERICAL DATA
- PROBABILITY
- STATISTICAL STUDIES
- USING RECURSION IN MODELS AND DECISION MAKING
- USING FUNCTIONS IN MODELS AND DECISION MAKING
- DECISION MAKING IN FINANCE
- NETWORKS AND GRAPHS

GRADING AND LATE WORK

70%: MAJOR GRADES (MJ) – 3 PER SIX WEEKS 30%: MINOR GRADES (MN) – 6 PER SIX WEEKS LESS THAN 7 DAYS LATE – **MAXIMUM GRADE OF 70** MORE THAN 7 DAYS LATE – **MAXIMUM GRADE OF 50**

ABSENCES/MAKE UP WORK

If you miss class for any reason it is YOUR RESPONSIBILITY to find out what it is that you missed. You will have all work at least one week before it is due. If you are going to be absent the day of a presentation or the day a project is due, it remains YOUR RESPONSIBILITY to submit your assignment on that due date.

TUTORING

Monday	12:00 PM – 12:30 PM	N122
Wednesday	12:00 PM – 12:30 PM	N122

TARDY POLICY

You are expected to be in class when the tardy bell rings. If you are not, then you are considered tardy.