

**RIVERMILL ACADEMY**  
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**Instructor:** Sathya Naru  
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**Semester:** Fall 2021  
**Course:** Math II  
**Prerequisite:** Math I

**Classroom :** # 327  
**Tutoring Hours:** TBD

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## **Fall Semester 2021 - Syllabus - Math II**

### **Course Description:**

This course stresses the concept of a function. Students deepen their study of quadratic, radical, and exponential functions. More advanced functions will be included as time permits. Algebraic and graphical knowledge of these functions is emphasized. Geometric transformations are explored, and then related to the study of congruent and similar triangles. The study of similarity leads to an understanding of right triangle trigonometry and connects to Pythagorean relationships. The link between probability and data is explored through conditional probability and counting methods. The Standards for Mathematical Practice apply throughout the course, and together with the Math II Content Standards, allow the students to experience mathematics and apply it as they make sense of problem situations.

### **Classroom Rules and Expectations**

#### ***“Respect Yourself, Respect Others and Respect the School”***

A student should

- Be Prompt: Should be in class on time.
- Be Prepared: Should come prepared with (3-ring binder, notebook, pencil, erasers, calculator, etc) every day.
- Be Attentive and Curious: Should pay attention, take notes, ask questions, etc
- Be Responsible: Take responsibility for your words and actions

Above all, have a ***“Positive Attitude”***

### **Attendance Policy**

Please refer to the Rivermill Academy Student Handbook

### **Electronics Policy**

Cell phones must be put on silent/mute/vibrate.

Laptops can be used for class work depending on the teacher’s instructions.

### **Course Requirements**

Students are expected to attend all scheduled classes, do the homework assigned each day for the next class, take quizzes, take tests, and be active participants in the class. Classwork will be posted on Canvas/RMA website/Schoolnet. Students are expected to be able to send and receive email messages with attachments and are required to contact their teacher whenever they are absent. **Students, each time you send me an email, put your full name and course name in the subject line. Students, please use only the Rivermill Academy Email.**

### **Student Evaluation and Testing**

**Homework** – Homework assignments are designed to practice and apply the concepts presented in class and are an essential part of the learning process. The students are expected to complete their homework on regular basis. The homework is the best excuse for the students to go through their daily notes and find areas where they need to improve. Students will receive a homework grade according to the level of completion. The Homework average will count for **25%** of the course grade.

**Quizzes** - At the end of each lesson, students are expected to take a quiz or more depending on how long each lesson is. If you miss the quiz, it is your responsibility to contact me and set up an alternate date/time to take the quiz. The quiz is a good sample of the test and it allows both the teacher as well as the students to see where the students are excelling and where they need more focus. The Quizzes average will count for **25%** of the course grade.

**Tests** – At the end of each unit, students are expected to take a unit-test. Students are encouraged to read their class notes, go through their homework and quizzes so that they are better prepared. “Make-up” tests will be allowed for students who have a good reason for missing class on the day of the test. It is your responsibility to set up an alternate date/time for the make-up test with the teacher. The Tests average will count for **25%** of the course grade.

**Projects** - Projects can either be based on subject material or based on math lessons in day-to-day life. The Projects average will count for **25%** of the course grade.

**The final grades are calculated as follows:**

**25% Homework**  
**25% Quizzes**  
**25% Tests**  
**25% Projects**

### **Course Tools, and/or Supplies:**

3-ring binder, notebook, pencils, erasers, graph paper, index cards, etc  
Recommended Calculator - TI 83/84