apologia

Live Classes

Algebra 2

Mrs. Pennington

Syllabus

2025-2026

Personal Note from Instructor:

I look forward to our class this year! Math can be used in so many different areas of your life, and I hope that you find it as thrilling as I do! Although it is important for you to understand, memorize, and be able to apply the theorems that are learned in this course, the most important aspect is to understand the application of mathematics from a Biblical worldview, and develop a greater desire to serve God and others. Therefore, this course will be taught with the application of biblical principles throughout, always using mathematics to point us back to our Creator.

Recommended Grade Level:

10th-11th

Prerequisites:

Algebra 1

Live Lecture Date & Time:

Monday/Wednesday 11:30-12:15 EST

NOTE: The instructor does not require attendance of the live lectures but highly recommends students attend as many of the live lectures as possible to take advantage of live Q&A. Lectures are recorded and posted on the course Canvas page under the associated week and module. If you miss a lecture, please watch the recording. You can also use the recording for review as you prepare for the online exam.

Description:

Algebra II is meant to reinforce the subjects learned in Algebra I, while preparing students for higher level courses by introducing new topics. The topics covered in this course include, linear, quadratic, polynomial, radical, and rational functions, exponential and logarithmic functions, and probability and statistics. By covering these topics, students will be prepared for further study of mathematics including, pre-calculus and calculus.

Required Class Materials:

- **Algebra 2 Student Text (3rd ed.)** ISBN 978-1606821985, The print or e-text is fine. Both can be ordered from BJU press here: https://www.bjupress.com/product/279141
- **Graphing Calculator** Texas Instruments TI-84 Plus C can be purchased here. This is the calculator I will be using in class, so it is highly recommended that you get this calculator. If you can't get this one, any graphing calculator will do.
- **Lined Notebook**
- **Graphing Paper**
- **The ability to Scan/Upload Assignment Work as a PDF** You will be required to complete your work using pen and paper, and therefore will need some way of scanning/uploading your assignment. You can do this one of two ways:
  1) If you have a smartphone or tablet with a camera, then you can get the FREE Adobe Scan App. It is available on android and apple smartphones. This powerful app allows you to take a picture of your handwritten work and will automatically convert it into a PDF. From there, you can email the document to yourself to access it on your computer for upload.
  2) You can use a modern scanner/printer to scan multiple pages to your computer and save them as a PDF.

It is expected that all work be displayed clearly in an organized fashion. In class, I will show you how I expect you to display your work for different problems.

Recommended Class Materials:

None

Course Topics:

Basic Algebra, Linear Relations, Solving Systems, Matrices, Quadratic Equations, Polynomial Functions, Radicals and Exponents, Exponential and Logarithmic Functions, Rational Expressions and Equations, Trigonometry, Probability and Statistics

Assignment Structure:

Textbook Reading & Attendance: To receive the weekly points for textbook reading and attendance, students will answer the attendance questions found under each week's heading in the Canvas portal. Inside the attendance heading, students will state whether they came to the live lecture or watched the recording, and also if they read the assigned material for that week. This is on the honor system, and students are expected to be truthful.

Homework Assignments: Problems will be handpicked from the textbook for each lesson as homework. These problems will be under the 'exercise' section in your book. It is required to complete these problems after each lesson to practice what was discussed in the lesson. Each week, students will be asked if they completed the homework. It will be a true/false question. It is very important

that the student complete this homework, as quiz questions, exam questions, and the midterm and final exams will be based on these exercises. It will be on their honor to indicate whether or not they completed it.

Quizzes: There will be a short quiz due each Friday (unless otherwise specified). These quizzes will be timed, and consist of a few problems from the material covered for that week. Their purpose is to provide an opportunity for the student to demonstrate his or her comprehension of the material. Students are to complete them using the appropriate activity on the Canvas course page. **For full credit, all work must be uploaded and clearly display each step in the process to the answer.** If I cannot see how an answer is achieved from the work given, even if the answer is correct, full credit will NOT be given.

Unit-Exams: There will be an examination at the end of each unit (unless otherwise specified). These will be longer then the weekly quizzes, and will be different, but similar, to the exams found in the book. Students should use their book, exercises, and quizzes to study. These will be closed book exams, and **all work must be uploaded and should clearly display each step in the process to the answer.** If I can't see how the answer was achieved from the work given, even if the answer is correct, full credit will NOT be given.

Midterm/Final Exams: These exams are on all of the material studied, up to that point. The midterm will be given right before Thanksgiving break, and will cover all of the units that we have covered so far. The final exam will be the last assignment due, and will cover all of the units that were learned. These exams will be closed-book, timed exams. You will have 4 hours to complete each exam, and **must upload your work. Each step must be clearly displayed in getting to the answer.** To study for these exams, use your book, the homework assignments, quizzes, and unit exams.

Grading:

Assessment	Percentage of Total Grade
Textbook Reading & Attendance	10%
Homework Assignments	15%
Quizzes	20%
Unit Exams	30%
Midterm/Final Exam	25%

Due Dates and Late Policy:

Students are encouraged to print a copy of the weekly assignments for personal reference. They should either keep it wither their algebra materials or tape it to a wall near their work stations.

Students are responsible for keeping track of all scheduled due dates and are responsible for any changes announced during lectures and/or on Canvas. The instructor reserves the

right to change due dates at any time, but must give students notice of at least one week prior.

All deadlines are 11:59 PM Eastern Standard Time (EST). A late penalty of 10% will be applied for every additional **week** that an assignment/exam is late. Parents can request extensions via email for situations beyond the student's control. All extension requests must be received by Friday at 5PM EST (Family emergencies are an exception). If an extension is requested, please explain the situation in the email. If the extension is approved, all late penalties will be waived. Students with extensions should post an exam comment with a reminder of the granted extension.

Student Conduct:

The online class environment requires special rules to minimize distractions and enables everyone to maximize the benefit of attending class. As the instructor, it is my role to provide the best learning environment possible. My rules include:

1. **Treat my classroom as if we were in a physical classroom together.**
2. **Do not talk or type while I am lecturing, unless you have a question or we are having a class discussion.**
3. **If you have a question during class, please type a (?) into the chat box, and then be typing your question, so that it is ready to send when I call on you**

4. **Do not multitask during lecture. This includes the use of mobile devices/ tablets, playing games, using social media, or anything online**
5. **If you must leave early, please private message me on Adobe Connect before exiting.**
6. **If you join the meeting late, please do not disrupt the lecture with messages. It will be your responsibility to watch the recording to catch up on missed material later.**
7. **Come to class prepared! Make sure you have read the current module in the textbook prior to class, and bring your textbook, notebook, pen, and calculator to every class.**
8. **Please do not abuse the emotes on Adobe connect.**
9. **Remember, these lectures are recorded. Use conversation that is appropriate and on topic.**
10. **Students should select a display name on Adobe Connect that consists only of their first name and last initial for privacy reasons.**

Instructor Availability for Questions:

I can be reached directly by email (mrspennington@apologia.com) if personal issues or questions arise that cannot be posted on to the entire class discussion on Canvas. The best time to contact me through email (for the fastest response) is Monday-Friday 12pm-2pm. You can email me anytime, though, and I will get back with you within 12-24 hours. I will do my absolute best to get back with you ASAP.