

Algebra 2 – Part B Course Details Semester Long Course

Course Objectives	By the end of this course, students will be conversant with a number of mathematical topics (see the Course Description for a list of these topics). 'Conversant' means that students will be able to recognize when a topic applies to a specific situation, how to analyze the situation, and how to interpret the analysis. Students will have enough computational skill with each topic that they will be able to correctly apply that skill whenever such skill is required in a subsequent mathematics course. Students will come away with an understanding and appreciation of where the topics arise in real world applications.
Textbook	There are no textbooks required for this course.
Calculators	<p>Students will need to have access to a calculator. Built-in to every operating system is a calculator (on Windows, it is under Accessories; on Macintosh, it is in the Applications folder). When opened, it is very basic. However, by clicking on the View menu, you will see Scientific as an option. Choosing scientific opens up the keypad and you will now have everything you need for this course.</p> <p>However, for students possessing more advanced graphing calculators, those calculators will be referenced in a number of places. While a graphing function on a calculator is not necessary for this course, it does make it easy to check your work. If you have a graphing calculator, there are appropriate tutorials provided as they are referenced; for those of you interested in trying an online graphing calculator, visit the site http://gcalc.net/ for a free applet.</p>

Week by Week Semester Breakdown

Week 1	<ul style="list-style-type: none"> • Unit 7: Composition of Functions Introduction, and Section 1A, 1B • CompofFcnsHW1
Week 2	<ul style="list-style-type: none"> • Unit 7: Composition of Functions Section 1C, 2 • CompofFcnsHW2 • CompofFcnsHW3
Week 3	<ul style="list-style-type: none"> • Unit 7: Composition of Functions Sections 3A, 3B, 3C, 3D • CompofFcnsHW4 • CompFcnActvty

Week 4	<ul style="list-style-type: none"> • Unit 7: Composition of Functions Sections 3E • CompofFcnsHW5 • CompFcns Quiz
Week 5	<ul style="list-style-type: none"> • Unit 8: Exponential and Logarithm functions Introduction, and Sections 1 and 2 • Exp and LogsHW1 • Exp and LogsHW2 • Exp and LogsHW3
Week 6	<ul style="list-style-type: none"> • Unit 8: Exponential and Logarithm functions Section 3 • Exp and LogsHW4 • Exp and LogsHW5
Week 7	<ul style="list-style-type: none"> • Unit 8: Exponential and Logarithm functions Section 4 • Exp and LogsHW6 • Exp and Logs Quiz
Week 8	<ul style="list-style-type: none"> • Unit 9: Counting Introduction, and Section 1 • CountingHW1 • CountingHW2
Week 9	<ul style="list-style-type: none"> • Unit 9: Counting Sections 2 and 3 • CountingHW3 • CountingHW4
Week 10	<ul style="list-style-type: none"> • Unit 9: Counting Sections 4 and 5A, 5B • CountingHW5 • CountingHW6
Week 11	<ul style="list-style-type: none"> • Unit 9: Counting Section 5C • CountingHW7 • CountingActvty • Counting Quiz
Week 12	<ul style="list-style-type: none"> • Unit 10: Sequences and Series Introduction and Section 1 • Seq and SerHW1 • SeqSerActvty
Week 13	<ul style="list-style-type: none"> • Unit 10: Sequences and Series Sections 2 and 3 • Seq and SerHW2

Week 14	<ul style="list-style-type: none">• Unit 10: Sequences and Series Sections 4 and 5• Seq and SerHW3
Week 15	<ul style="list-style-type: none">• Unit 10: Sequences and Series Section 6• Seq and SerHW4• SeqSeriesQuiz
Week 16	<ul style="list-style-type: none">• Unit 11: Mathematical Induction Introduction, and Sections 1 - 4• InductionHW1• InductionHW2
Week 17	<ul style="list-style-type: none">• Unit 11: Mathematical Induction Sections 5 and 6• InductionActvty
Week 18	<ul style="list-style-type: none">• Final Exam