

Brock's Math Class
Math 110: College Algebra Course Info

Class: Math 110: College Algebra

8/17-12/13

Instructor: Laurel Brock
Email: lbrock@sierranevada.edu
Phone: 530-307-9968

Days: Tuesdays and Thursdays
Time: 5:30pm – 6:45pm
Room: SNC, Library 214

Textbook: "Algebra for College Students" 7/e by Robert Blitzer (e-text available on MyMathLab)

Homework Supplement Requirement: MyMathLab.com ***REQUIRED!**

MyMathLab Course ID: **brock05837**

Final Exam: Wednesday, 12/9: 6:30pm – 9:30pm

Calculators: TI-83+ suggested. Free virtual version at videomathteacher.com.

Laptops: Required in class at all times. *Note: May not be used for personal use during class.*

Grading Rubric

	Excellent ("A" grade)	Average ("C" grade)	Poor ("D" grade)	"F" grade
Attendance / Participation	Attends all classes and participates in in-class assignments. On time and doesn't leave class early at least 95% of the time.	Attends most classes and participates in in-class assignments. Is often late or leaves early for class.	Attends less than 50% of the classes and rarely participates in-class assignments.	Does not come to class at all.
Content Knowledge	Demonstrates an excellent understanding of the content being taught.	Demonstrates an average understanding of the content being taught.	Demonstrates a less than average understanding of the content being taught.	Does not show any understanding of the content being taught.
Homework	Completes all at-home assignments accurately and meets all deadlines.	Completes at least 75% of the at-homes assignments accurately and meets at least 75% of the deadlines.	Completes less than 50% of the at-homes assignments accurately and rarely meets deadlines.	Does not complete any of the at-home assignments.
Group Projects	Works effectively and efficiently with their team to complete all group project assignments and meet set deadlines.	Works somewhat effectively and somewhat efficiently with their team to complete all group assignments and meet set deadlines.	Doesn't work effectively or efficiently with their team to complete all group assignments and meet set deadlines.	Does not participate in group projects.
Individual Projects	Completes assignments with full accuracy and meets set deadlines.	Completes assignments with at least a 75% accuracy rate and meets set deadlines.	Completes assignments with at least a 50% accuracy rate but rarely meets set deadlines.	Does not complete assignments.
FINAL EXAM: Wednesday 12/9 @ 6:30 – 9:30 pm				

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Course Description: Covers first-degree equations, polynomials, inequalities, factors, scientific notation, sequences and series, exponents and logarithmic functions, coordinates and graphs, functions, and roots of polynomial equations.

Prerequisite: Math Placement Test P or Math Placement Test 30 or SAT Mathematics 500 or ACT Composite 21 or Undergraduate level [MATH 090](#) Minimum Grade of C.

Course Objectives:

- A sense of number and the ability to discern whether a proposed numerical answer to a problem is reasonable – the ability to think correctly about numbers and to use data to make intelligent decisions in life.
- The ability to use mathematical knowledge to confront unfamiliar problems both in concrete and abstract situations – modeling a mathematical problem in several ways to facilitate a solution.
- The ability to discuss the mathematical ideas involved in a problem with other people and to write coherently about mathematical topics and their interrelations.
- General reasoning powers – understanding of mathematical implication and knowledge of why various mathematical statements follow from more basic ideas.
- General algebraic proficiency – the ability to manipulate algebraic expressions – an understanding of the interrelationships between the symbolic, numeric, and graphic representations of real-world phenomena.
- The ability to visualize, compare, and transform problems geometrically – an understanding of the connections between algebra and geometry.
- An understanding of the uses of mathematics in other disciplines and the use of technology in the solution of mathematical problems.
- The ability to gather, organize, display, and summarize data – the ability to draw conclusions or make predictions from data.

The Mathematical Association of America's (MAA) Committee on the Undergraduate Program in Mathematics (CUPM) in developing future mathematics curriculum has made the following preliminary recommendations:

- Students should achieve mastery of rich and diverse set of mathematical ideas and should experience mathematics as an engaging field with contemporary open questions.
- Students should be able to think analytically and critically, to formulate and solve problems, and to interpret their solutions. They should understand and appreciate the value of validity of careful reasoning, precise definition, and close argument.
- Students should have experience applying knowledge from one branch of mathematics to another and from mathematics to other disciplines.
- Students should be able to use a variety of technology tools.
- Students should be able to communicate mathematics both orally and in writing; they should be able to read mathematics.

Class Guidelines:

- You must bring a laptop with Internet access on it.
- All course information will be communicated via your SNC Email.
- If an exam/presentation is missed for a legitimate reason (illness, injury, accident, etc.) it may either be taken up to two days late or an alternative assignment will be created to cover the material.
- Take good notes! Find a friend in class to share notes with in case you miss class. If you need additional assistance in note-taking, as the instructor or visit the Office of Academic Services and Instructional Support.
- Laptops and cellphones may NOT be used for personal use during class. Violation will result in the instructor asking you to leave class.

ADA Accommodations: In accordance with the Americans with Disabilities' Act and Section 504 of the Rehabilitation Act of 1973, students with a documented disability are eligible for support services and accommodations. If a student wishes to request an accommodation, please contact the Director of Academic Support Services, Henry Conover, at 775-831-1314 x7534, hconover@sierranevada.edu.

Sierra Nevada Mission Statement

Sierra Nevada College graduates with be educated to be scholars of and contributes to a sustainable world. Sierra Nevada College combines the liberal arts and professional preparedness through an interdisciplinary curriculum that emphasizes entrepreneurial thinking and environmental, social, economic and educational sustainability.

Student Honor Code

The faculty of SNC believes students must be held to high standards of integrity in all aspects of college life in order to promote the educational mission of the College and to encourage respect for the rights of others. Each student brings to the SNC community unique skills, talents, values and experiences which, when expressed within the community, contribute to the quality of the educational environment and the growth and development of the individual. Students share with members of the faculty, administration and staff the responsibility for creating and maintaining an environment conducive to learning and personal development, where actions must be guided by mutual respect, integrity, responsibility and trust. The faculty and students alike must make diligent efforts to ensure high standards are upheld by their colleagues and peers as well as themselves. Therefore faculty and students accept responsibly for maintaining these standards at Sierra Nevada College and are obligated to comply with its regulations and procedures, which they are expected to read and understand.

Consequences of Violating the Student Honor Code

SNC students and faculty share the responsibility for maintaining an environment of academic honesty. Thus, all are responsible for knowing and abiding by the SNC Faculty / Student Honor Code published in the current SNC Catalog. Faculty are responsible for presenting the Honor Code and the consequences of violating it to students are the start of their classes AND for reporting all incidences of academic dishonesty to the Provost. Students are responsible for knowing what constitutes CHEATING, PLAGIARISM and FABRICATION and for refraining from these and other forms of academic dishonesty. Violations of the Honor Code become part of the student's academic record.

1st Offense: Student receives a zero for the assignment /exam and counseling with faculty on the honor code, consequences for violating the honor code, and the value of academic honest in learning.

2nd Offense: Student fails course and receives counseling with faculty on the honor code, consequences for violating the honor code, and the value of academic honesty in learning

3rd Offense: Students is expelled

Please sign below indicating that you have read and understand what is expected of you in regards to academic honesty at SNC.

Student Name

Student Signature

Date

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Week	Textbook Sections	Lecture Sections
1		Syllabus and Course Guidelines
	Chapter 1	Basic Algebraic Number Theory
2	Chapter 1	Problem Solving: Reasoning
	Chapter 2	Linear Equations and Inequalities in One Variable
3	Chapter 3	Graphing Linear Equations & Inequalities in Two Variables
	Chapter 3	Graphing Linear Equations & Inequalities in Two Variables
4	Chapter 3	Graphing Linear Equations & Inequalities in Two Variables
	Chapter 5	Exponents & Polynomials
5	Chapter 5	Exponents & Polynomials
	Chapter 5	Factoring Polynomials
6	Chapter 5	Factoring Polynomials
	Chapter 5	Factoring Polynomials
7	Chapter 6	Rational Expressions & Equations
	Chapter 6	Rational Expressions & Equations
8	Chapter 7	Radical Expressions & Equations
	Chapter 7	Radical Expressions & Equations
9	Chapter 8	Quadratic Equations & Functions
	Chapter 8	Quadratic Equations & Functions
10	Chapter 9	Exponential and Logarithmic Functions
	Chapter 9	Exponential and Logarithmic Functions
11	Chapter 12	Sequences, Induction, and Probability
	Chapter 12	Sequences, Induction, and Probability
12	Final Exam	Project Presentation