

Brock's Math Class  
Math 101: Math Reasoning Course Info

Class: Math 101: Math Reasoning

(8/17-12/13)

Instructor: Laurel Brock

Email: lbrock@sierranevada.edu

Phone: 530-307-9968

Days: Tuesdays and Thursdays

Time: 7:00pm – 8:15pm

Room: SNC, Library 214

Textbook: Topics in Contemporary Mathematics, 10E, Bello, Kaul, and Britton, Cengage Learning  
(Not Required)

Calculators: TI-83+ suggested. Free virtual version at [videomathteacher.com](http://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: Saturday 12/12 @ 6:30 – 9:30 pm**

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Course Description: Mathematical ways of thinking and an overview of many areas of mathematics. Included are parts of algebra, geometry, graph interpretation, probability, statistics, and topology. Emphasis on problem solving. Interesting geometric puzzles and logic problems. Intended to hone a student's reason and critical thinking abilities.

Prerequisite: Passing MATH 090 with a "C" or better, or meeting the College's entrance requirements for mathematics.

Course Objectives:

- Think correctly about numbers and have the ability to discern the reasonableness of a particular solution.
- Model a mathematical problem using various strategies in order to solve a problem.
- Understand the many uses of mathematics in other disciplines (with emphasis on Environmental Science)
- Gather, organize, display, and summarize data.
- Use technology as a tool to solve mathematical models.
- Discover when to use a linear, exponential, or power function from the given 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](mailto:hconover@sierranevada.edu).

## Sierra Nevada Mission Statement

Sierra Nevada College graduates will be educated to be scholars of and contribute 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.

1<sup>st</sup> 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 honesty in learning.

2<sup>nd</sup> 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

3<sup>rd</sup> Offense: Student is expelled

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

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Student Name

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Student Signature

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Date

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<b>Week</b>	<b>Textbook Sections</b>	<b>Class Topics</b>
<b>1</b>	Supplement Material	Elementary and Algebraic Number Theory
	Chapter 1	Elementary and Algebraic Number Theory
<b>2</b>	Chapter 1	Elementary and Algebraic Number Theory
	Chapter 1	Elementary and Algebraic Number Theory
<b>3</b>	Chapter 17	Equation, Inequalities, and Problem Solving
	Chapter 17	Equation, Inequalities, and Problem Solving
<b>4</b>	Chapter 17	Equation, Inequalities, and Problem Solving
	Chapter 17	Equation, Inequalities, and Problem Solving
<b>5</b>	Chapter 17	Equation, Inequalities, and Problem Solving
	Chapter 17	Equation, Inequalities, and Problem Solving
<b>6</b>	Chapter 3	Functions and Graphs
	Chapter 3	Functions and Graphs
<b>7</b>	Chapter 3	Functions and Graphs
	Chapter 3	Functions and Graphs
<b>8</b>	Chapter 3	Functions and Graphs
	Chapter 3	Functions and Graphs
<b>9</b>	Chapter 2	Geometry
	Chapter 2	Geometry
<b>10</b>	Chapter 2	Geometry
	Chapter 2	Geometry
<b>11</b>	Chapter 22	Statistics
	Chapter 22	Statistics
<b>12</b>	Chapter 22	Statistics
	Chapter 22	Statistics
<b>13</b>	Chapter 22	Statistics
	Chapter 22	Statistics
<b>14</b>	Supplement Materials	Your Money and Your Math
	Supplement Materials	Your Money and Your Math
<b>15</b>	Supplement Materials	Your Money and Your Math
	Supplement Materials	Your Money and Your Math
<b>16</b>	Final Exam	Project Presentation