

**Course Code & No. - Section:** Math 110 - Section 1  
**Course Title (Credits):** College Algebra (3)  
**Term & Year:** Spring / 2015  
**Course Ref. No. (CRN):** 10014

**Instructor:** Katie McConaghy  
**Email:** [piontheside@gmail.com](mailto:piontheside@gmail.com)  
**Office Hours:** By appointment

**Class Meeting Time:** T/Th 11:30 – 12:45  
**Location:** PL213

**Prerequisites:** 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 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.

### Student Outcomes

The course is designed to guide SNC students towards mathematical proficiency by providing opportunities where learners may practice and demonstrate:

- ① 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.
- ② 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.
- ③ The ability to discuss the mathematical ideas involved in a problem with other people and to write coherently about mathematical topics and their interrelations.
- ④ General reasoning powers – understanding of mathematical implication and knowledge of why various mathematical statements follow from more basic ideas.
- ⑤ 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.
- ⑥ The ability to visualize, compare, and transform problems geometrically – an understanding of the connections between algebra and geometry.
- ⑦ An understanding of the uses of mathematics in other disciplines and the use of technology in the solution of mathematical problems.
- ⑧ 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 and 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.

### Methods of Assessing Student Outcomes

Class participation, homework problems, quizzes, exams.

### Instructional Strategies

Computer-based & lecture-based instruction (this includes live and video lectures, powerpoints, and animations)

### Texts and Materials

1. Optional – Lial, Hornsby, Schneider & Daniels, College Algebra, 11e ISBN: 978-0-321-67179-0
2. Recommended – Graphing Calculator: TI-83 or TI-84.
3. Required – MyMathLab Access Code

### Class Requirements

- Homework – 30%
- Quizzes – 20%
- Chapter Tests – 30%
- Cumulative Final Exam – 20%

### Grading Policy

All exams and assignments will be graded on the following straight scale:

A: 90 - 100%, B: 80 – 89%, C: 70 - 79%, D: 60 - 69%, F: Below 60%

### Attendance Policy

It is highly recommended that a student does not miss any class sessions. Over the course of the semester, there will be 22 lectures, 5 chapter tests, 2 review days, and 1 cumulative final. (See schedule at the end of the syllabus for further detail.) Attendance to the lectures will be rewarded with points added directly to the final grade at the end of the semester. The breakdown is as follows:

Lecture Attended	Points Added
19 – 22	5
15 – 18	4
10 – 14	3
5 – 9	2
2 – 4	1

### Homework Policy

Homework will be completed in MyMathLab. Depending on the length of the chapter, there are between 3 and 6 parts for each chapter. Each lecture will directly correspond to a specific homework assignment..

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All the homework for the same chapter will be due on the same date. It is **STRONGLY** recommended that you complete the homework many days in advance of the due date. **Late homework will not be accepted.** Not having internet access is not a valid excuse for missing homework. The lowest two homework grades will be dropped.

### Quiz Policy

There will be one quiz per chapter. Each quiz will be done in MyMathLab. You can re-do a quiz as many times as you'd like until you attain the desired grade. **Late quizzes will not be accepted.** While taking the quiz, you will not be given the option to use additional resources to help you solve the problem. However, when reviewing a submitted quiz, you can use the optional instructional aids for learning purposes. Quizzes may be completed anytime before the due date. The lowest quiz grade will be dropped.

### Exam Policy

There will be one test per chapter. Each test will be done in MyMathLab. **Tests must be completed in class.** You may use a calculator for all tests. Tests may be taken early, but may never be taken late unless an arrangement has been made with me **PRIOR** to exam day given an acceptable excuse. The final exam will be cumulative and will be given on Saturday, 5/9/15 from 11:30am – 2:30pm. If a student has an average of 90% or better going into the final exam, he or she may opt out of taking the final exam.

### MyMathLab

It is **required** to have a software license to use the software MyMathLab in this class. Students can purchase the license alone either from the bookstore or online at [pearsonmylab.com](http://pearsonmylab.com). The license gives you access to the textbook online. If you purchase a used textbook, you will also need to purchase the software license. When you first attempt to log on you will need to put in the following course ID: **mcconaghy90943**. Please see the 'Student Registration Handout' for further instructions on registering for MyMathLab.

### How To Succeed In This Course

- **Keep up with the work!** Math can be a difficult subject; it is **imperative** that you keep up with the work in this class! Pay attention to the schedule and don't miss assignments.
- **Work at your own pace!** This is a computer-based learning class. This means that you may work at your own pace, but you cannot fall behind the due dates for each chapter. You are encouraged to work ahead of the schedule if you find yourself understanding the material at a faster pace.
- **Make use of the Tutoring Center!** I have limited office hours, therefore it is imperative that you get the most out of my lectures and go to the Tutoring Center if you're having any trouble at all and need some assistance. The Tutoring Center, staffed with knowledgeable tutors, is located on the 3<sup>rd</sup> floor of Prim Library and is open for math drop-in tutoring. There are also computers available for use. Check out the website for more information: [SNC Tutoring Center](#)
- **Form study groups!** They can be a great source of help! You can work together on homework assignments, but you need to submit the answer you believe is correct.

### IMPORTANT DATES

- **Jan 26:** Last day to drop with 100% refund
  - **Feb 16:** President's Day – SNC closed
  - **Mar 16 – 20:** Spring Break – no classes
  - **Mar 30:** Last day to change grade status or withdraw without academic penalty
  - **May 6 – 7:** Study Days – no classes
  - **May 9:** Final Exam (11:30 – 2:30)
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**Prim Library Resources**

Using the library's resources effectively (not just Internet resources) contributes to developing each of SNC's core themes by exposing students to high quality academic resources, diverse opinions, new ideas, and a future that includes building on a liberal arts education. In this course, you will be expected to utilize the library's resources (either on-site or remotely) as you complete your assignments.

**Sanctions for Cheating and/or Plagiarism****The 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 are 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 responsibility 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 at 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 a student's academic record.

- 1<sup>st</sup> Offense: Student receives a zero for 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.

**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), office in Prim Library: PL-304.

**The SNC Email System**

The SNC email system is the official communication vehicle among students, faculty members and administrative staff and is designed to protect the confidentiality of student information as required by the Family Educational Rights and Privacy Act of 1974 Act (FERPA). Students should check their college email accounts daily during the school year.

Students have a right to forward their SNC e-mail to another e-mail account (for example, @hotmail or @gmail). However, confidentiality of student information protected by FERPA cannot be guaranteed for

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SNC e-mail forwarded to an outside vendor. Having email redirected does not absolve a student from the responsibilities associated with official communication sent to his or her SNC email account.

### The Sierra Nevada College Mission Statement:

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

### The Core Themes:

Liberal Arts

Professional Preparedness

Entrepreneurial Thinking

Sustainability

### SNC - Math 110 - Section 1 - Spring 2015

Tuesday	Jan 20	Lecture 1	R.2 - R.3	Tuesday	Mar 17	Spring Break	No class
Thursday	Jan 22	Lecture 2	R.4	Thursday	Mar 19	Spring Break	No class
Tuesday	Jan 27	Lecture 3	R.5	Tuesday	Mar 24	Lecture 14	3.1
Thursday	Jan 29	Lecture 4	R.7	Thursday	Mar 26	Lecture 15	3.2
Tuesday	Feb 3	Test	Ch R	Tuesday	Mar 31	Lecture 16	3.3
Thursday	Feb 5	Lecture 5	1.1 & 1.7	Thursday	Apr 2	Lecture 17	3.3 (cont'd)
Tuesday	Feb 10	Lecture 6	1.3	Tuesday	Apr 7	Lecture 18	3.4
Thursday	Feb 12	Lecture 7	1.4	Thursday	Apr 9	Lecture 19	3.5
Tuesday	Feb 17	Lecture 8	1.5	Tuesday	Apr 14	Test	Ch 3
Thursday	Feb 19	Lecture 9	1.6	Thursday	Apr 16	Lecture 20	4.2
Tuesday	Feb 24	Test	Ch 1	Tuesday	Apr 21	Lecture 21	4.3
Thursday	Feb 26	Lecture 10	2.1 & 2.2	Thursday	Apr 23	Lecture 22	4.4 & 4.5
Tuesday	Mar 3	Lecture 11	2.3 & 2.4	Tuesday	Apr 28	Test	Ch 4
Thursday	Mar 5	Lecture 12	2.5	Thursday	Apr 30	Review	
Tuesday	Mar 10	Lecture 13	2.6 & 2.7	Tuesday	May 5	Review	
Thursday	Mar 12	Test	Ch 2	Thursday	May 7	Study Day	No class
				Saturday	May 9	Final Exam	11:30 - 2:30

*\*Subject to change.*