

Shasta College – Tehama Campus

Division: Science, Language Arts, and Math



Math 101 LC –Basic Algebra
January 16 – May 18
Lecture TTh 2:30 pm – 3:45 pm, 3 units
Lab TTh 4:00 pm – 5:15 pm, 1 unit

Spring 2018
Section S0096/S0097
TE 7210
TE 7210

Instructor: Debra Griffin
E-mail: dgriffin@shastacollege.edu

Office Hours: See page 5
Phone: (530) 529-8980

When emailing, please include your full name, class name, and designated days and time of your class in the subject heading.

Materials: Math 101 Lecture Notes + Homework Worksheets, posted online at www.dgriffinresources.net . Homework Worksheets can be printed at home from the my website or purchased through the bookstore. No textbook is required for this class.

Wait List Policy: Wait listed students can maximize their chances of being allowed to add by attending every class, completing and submitting every assignment, and taking every quiz or exam until given permission to add. Please note that it is the student's responsibility to add this class. The student must self enroll using a special code provided, or complete an add form and submit this form to the registrar. The last day to add this class is ***Friday, February 2, 2018.***

Drop Policy: Work schedules and course loads can sometimes prove to be overwhelming. When this is the case, students can choose to drop classes without record within the first three weeks of the semester. A course that has been dropped *with* record will count as one of the three allowable attempts for that course. The last day to drop this class *without* record is ***Friday, February 2, 2018.***

Attendance: Attendance will be taken daily. Tardy and early departures count as ½ absence. If a student misses more than 5 class hours the student may be dropped from the class. It is important to notify me in advance or as soon as possible regarding all absences.

Food and Drink: No food or drink (except water) is allowed in any classroom at the Tehama campus. Food and drink are a distraction to the learning environment and crumbs and spills can be an unwanted attraction to insects. Snacks may be consumed outside the classroom or in the Student Lounge.

Extra Help: This course is taught in conjunction with a math tutoring lab. Enrollment is optional, but help is open during this lab to all who wish to utilize it. Please feel free to drop in for help during my office hours in room 7310 located on the west side of the building nearest the parking lot. If the light on the office hallway door is green, then push hard to open the door (it sticks). Also, please visit our excellent Tehama Learning Center in room 7116. I highly recommend that you take advantage of their services even if just to use the room as a quiet environment to get your homework done.

Shasta College

770 Diamond Ave., Red Bluff, California 96080
www.ShastaCollege.edu

Classroom Policies and Procedures

Note-taking: (5 points extra credit each chapter) Lecture note-taking guides are posted on my website at www.dgriffinresources.net. The problems in the left column will be demonstrated in class; the problems on the right will be completed neatly, *done in pencil*, with all worksteps shown, by students. The note-taking guides will be collected on the day of each respective exam. Under the following conditions, note-taking guide score will be:

Score	Condition
5	Complete, all worksteps shown, correct answers, neatly done in pencil, correctly ordered and fastened into folders with fasteners, turned in on time, labeled with name and site
0	Any one of the above requirements are not met.

Quizzes: (6 points each) There will be approximately 12 group quizzes on which students are encouraged to work collaboratively with classmates. Work must be neat, *done in pencil*, with all worksteps shown. Worksteps as well as the final answer to each problem will be graded for accuracy. Each quiz is due at the end of the designated class session. The two lowest quiz scores will be dropped.

Homework: (2 points each) Homework will be assigned daily and is due at the beginning of the next class session. It must be neat, *done in pencil*, organized, legible, and complete. Under the following conditions, homework score will be:

Score	Condition
2	fully complete (every problem attempted), done in pencil, corrected in colored ink, more than 80% correct
1	late, incomplete, minimal work is shown, or illegible
0	not done, or is identical to another student's paper

Exams: (100 points each) There will be five mid-term exams, one for each chapter. See class calendar for schedule of exams. Exams must be *done in pencil*. No calculators are allowed on any exam. Please remember to turn cell phones off during exams and stow them completely out of sight.

Final Exam: (200 points) The final exam will be cumulative and multiple choice. This exam is mandatory for passing this class. It will be administered in your regular classroom, on
Thursday, May 17, 2:30 pm – 3:45 pm.

Make-Up Policy: There will be no make-up exams or quizzes. The lowest midterm exam and two lowest quizzes will be dropped. This allows for a student to miss one exam and/or two quizzes without penalty.

Evaluation: Grades will be determined by the percentage earned of the total points.

A	90% - 100%
B	80% - 89%
C	70% - 79%
D	60% - 69%
F	0% - 59%

Bonus Points: Students can receive 1 bonus point per hour spent in the Tehama Learning Center (up to 5 points per chapter), 5 points per chapter for lecture notes, and 2 points per bonus problem on quizzes and exams.

- Calculators:** Students may not use calculators in this class. This course is designed to give students review and practice in basic arithmetic as well as basic algebra topics. Problems have been written so that calculators will not be necessary to complete them.
- Cheating:** Unless specifically announced otherwise, all exams will be closed book with use of calculators, notes, and internet prohibited. Receiving or giving aid, texting, or even looking at an internet capable device during an exam may result in a zero grade on that exam and may result in being suspended from the course. This zero score will count in the final grade determination. Homework that is predominantly identical to another student's work will receive a zero score.
- Behavior:** Students are expected to exhibit respectful behavior to other students and the instructor. A student may be suspended from the class if he or she engages in a classroom behavior that interferes with the learning environment. Such behavior includes, but is not limited to, disruptive conversations with fellow students, regular tardiness, leaving the classroom during class time, use of electronic devices, and eating or drinking in class. Students are expected to turn off all cell phones, smart phones, iPods, tablet computers, laptop computers, and *any other form of digital device* for the duration of class.
- Final Exam:** A final exam will be conducted during the scheduled final exam period, and all students will be expected to attend. Failure to attend during the final exam period will result in an "F" grade for the course unless special arrangements have been made in advance with the instructor.
- Guests/Children/Pets:** Only authorized persons are allowed in the classrooms. College liability coverage does not extend to guests or children, thus they are not allowed in the classroom. If you are a student in need of assistance with childcare during class time, please contact the EOPS office. EOPS may be able to help with long-term day care; however, it does not provide day-care service on a drop-in basis. No pets (with the exception service animals) are allowed in the classroom.

Shasta College Policies

- Accommodations:** If you feel that you will need academic accommodations in this class due to limits imposed by a disability then contact the Disability Resource Center (242-7790) to make the necessary arrangements. It is the student's responsibility to provide documentation that verifies the disability and the type of limitations that may result. The Disability Resource Center has been delegated the authority to, 1) evaluate that documentation to determine if it is sufficient to justify accommodations, 2) determine which accommodations are appropriate, and 3) facilitate the provision of approved accommodations.
- Nondiscrimination:** The Shasta-Tehama Trinity Joint Community College District ("Shasta College") does not discriminate against any person on the basis of race, color, national origin, sex, religious preference, age, disability (physical and mental), pregnancy (including pregnancy, childbirth, and medical conditions related to pregnancy or childbirth), gender identity, sexual orientation, genetics, military or veteran status or any other characteristic protected by applicable law in admission and access to, or treatment in employment, educational programs or activities at any of its campuses. Shasta College also prohibits harassment on any of these bases, including sexual harassment, as well as sexual assault, domestic violence, dating violence, and stalking.

Math 101 Basic Algebra

Prerequisite: A grade of C or higher in MATH 240, or A grade of C or higher in MATH 260, or Math Placement Level 2 or higher

Advisory: A grade of C or higher in ENGL 280, or English Placement Level 5 or higher

Description: **MATH 101** – A first course in algebra designed to cover the basic concepts and operations of algebra including solving linear equations, exponent laws, arithmetic and factoring of polynomials, and graphing linear equations in two variables. Applications are encountered throughout the course. **Units:** 3.0

Course Objectives: Upon successful completion of this course, the student will be able to:

1. Evaluate algebraic expressions and "formulas."
2. Use formulas to solve realistic problems.
3. Evaluate expressions containing integer exponents.
4. Use the simplification rules for products, quotients and integer powers of expressions.
5. Explain the concept of a function using an input/output or independent/dependent model.
6. Solve a linear equation in one variable.
7. Solve a linear inequality in one variable and graph the solution set on the number line.
8. Graph the solution sets for: $x < n$, $x > n$, $x \leq n$, and $x \geq n$ on the number line.
9. Graph solutions of equations in two variables by plotting points.
10. Use a graph to obtain information and answer questions.
11. Describe the geometric meaning of the slope of a line as rise/run
12. Add, subtract, and multiply polynomials.
13. Divide a polynomial by a monomial.
14. Factor out the GCF from a polynomial.
15. Factor a polynomial by grouping.
16. Factor a quadratic trinomial.

Expected Student Learning Outcome:

Upon successful completion of the course, students will be able to accurately apply steps of problem solving to solve a problem as follows:

- 1) Demonstrate understanding of the problem
- 2) Choose an appropriate problem-solving strategy
- 3) Effectively solve the problem using the chosen strategy
- 4) Clearly state the correct solution to the problem

Spring 2018

Schedule for Professor Debra Griffin

	Monday	Tuesday	Wednesday	Thursday	Friday	
8:00	<i>8:00 – 9:00</i> Office Hour Room 7310 (or 7210)					
8:15						
8:30						
8:45						
9:00	<i>9:00 - 11:15</i> Math 102 S0098 Room 7210	<i>9:00 - 11:15</i> Math 260 S0099 Room 7210	<i>9:00 - 11:15</i> Math 102 S0098 Room 7210	<i>9:00 - 11:15</i> Math 260 S0099 Room 7210		
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1:45		<i>1:45 – 2:30</i> Office Hour Room 7310 (or 7210)		<i>1:45 – 2:30</i> Office Hour Room 7310 (or 7210)		
2:00						
2:15						
2:30		<i>2:30 - 3:45</i> Math 101 S0096 Room 7210		<i>2:30 - 3:45</i> Math 101 S0096 Room 7210		
2:45						
3:00						
3:15						
3:30						
3:45						
4:00		<i>4:00 - 5:15</i> Math 101L S0097 Room 7210		<i>4:00 - 5:15</i> Math 101L S0097 Room 7210		
4:15						
4:30						
4:45						
5:00						
5:15						

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Math 101, Spring 2018			Calendar		Instructor: Debra Griffin	
Week	Monday	Tuesday	Wednesday	Thursday	Friday	
1	Jan 15 <i>Martin Luther King, Jr. Holiday Campus Closed</i>	Jan 16 Syllabus 1.1 Fractions	Jan 17	Jan 18 1.2 Order of Operations and Variable Expressions Group Quiz #1	Jan 19	
	Jan 22	Jan 23 1.3 Signed Numbers 1.4 Operations with Signed Numbers	Jan 24	Jan 25 1.5 Properties of Signed Numbers Group Quiz #2	Jan 26	
3	Jan 29 <i>Last day to drop and receive refund for full-term classes</i>	Jan 30 Exam 1 <i>(no make-ups allowed)</i>	Jan 31	Feb 1 2.1 Simplifying Algebraic Expressions Group Quiz #3	Feb 2 <i>Last day to register and add full-term class, drop a full-term class without record.</i>	
	Feb 5 <i>Census day for full-term classes</i>	Feb 6 2.2 Solving Simple Equations	Feb 7	Feb 8 2.3 Solving More Complicated Equations Group Quiz #4	Feb 9	
5	Feb 12	Feb 13 2.4 Solving Equations with Fractions	Feb 14	Feb 15 2.5 Problem Solving Group Quiz #5	Feb 16 <i>Lincoln's Day Campus Closed</i>	
	Feb 19 <i>Washington's Day Campus Closed</i>	Feb 20 2.5 Problem Solving (continued)	Feb 21	Feb 22 2.6 Solving Inequalities Group Quiz #6	Feb 23 <i>Last day to declare pass/no pass option</i>	
7	Feb 26	Feb 27 Exam 2 <i>(no make-ups allowed)</i>	Feb 28	Mar 1 3.1 Plotting Points 3.2 Graphing Linear Equations Group Quiz #7	Mar 2	
	Mar 5	Mar 6 3.3 Graphing Nonlinear Equations	Mar 7	Mar 8 3.4 The Slope of a Line Group Quiz #8	Mar 9 <i>Flex Day No Classes</i>	
9	Mar 12	Mar 13 3.5 Writing Equations of Lines	Mar 14	Mar 15 3.6 Functions Group Quiz #9	Mar 16	
	Mar 19	Mar 20 3.7 Graphing Linear Inequalities	Mar 21	Mar 22 Exam 3 <i>(no make-ups allowed)</i>	Mar 23	
10						

Week	Monday	Tuesday	Wednesday	Thursday	Friday
11	Mar 26	Mar 27 4.1 Exponent Laws	Mar 28	Mar 29 4.2 Adding and Subtracting Polynomials 4.3 Multiplying Polynomials Group Quiz #10	Mar 30
12	Apr 2 <-----	Apr 3 -----	Apr 4 Spring Vacation	Apr 5 -----	Apr 6 ----->
13	Apr 9	Apr 10 4.4 Special Products	Apr 11	Apr 12 4.5 Dividing Polynomials Group Quiz #11	Apr 13
14	Apr 16	Apr 17 4.6 Negative Exponents and Scientific Notation	Apr 18	Apr 19 Exam 4 (no make-ups allowed)	Apr 20 Last day to withdraw from a full-term class with a "W"
	Apr 23	Apr 24 5.1 Greatest Common Factor 5.2 Factor by Grouping	Apr 25	Apr 26 5.3 Factor a Trinomial Group Quiz #12	Apr 27
15	Apr 30	May 1 5.4 Factor a Binomial	May 2	May 3 5.5 Choosing a Factoring Method Group Quiz #13	May 4
16	May 7	May 8 5.6 Solving Equations by Factoring	May 9	May 10 Exam 5 (no make-ups allowed)	May 11
17	May 14	May 15 Review for final exam	May 16	May 17 Final Exam 2:30 pm – 3:45 pm	May 18

Note: This syllabus is subject to change at the discretion of the instructor.
Revised: 11/14/17