

## Math 65 Elementary Algebra

- **Class meets:** Monday and Wednesday, 5:00 – 7:15 p.m., Room 505
- **Instructor:** (Mrs.) Teresa (Teri) Henson
- **MyMathLab™ COURSE ID: henson66646**
- **Scheduled Office Hours:**
  - ◆ Monday, 7:20 – 7:45 p.m., Room 505 (classroom)
  - ◆ Tuesday, 9:30 – 10:20 a.m., Room 2185 (office)
  - ◆ Tuesday 5:00 – 5:50 p.m., Room 600 (ILC)
  - ◆ Wednesday, 1:00 – 1:50 p.m., Room 2185 (office)
  - ◆ Wednesday, 7:20 – 7:45 p.m., Room 505 (classroom)
  - ◆ Thursday, 9:30 – 10:20 a.m., Room 2185 (office)
  - ◆ Office hours also available by appointment
- **TBA Lab Hour:** Thursday, 5:00 – 6:00 p.m.
- **Office:** Building 2100, Room 2185
- **Office Telephone:** 424-1349
- **E-mail:** thenson@laspositascollege.edu
- **Mailbox:** Building 100
- **Instructor website:** from the LPC home page, select the Faculty+Staff link at the top of the page, then click on the Faculty Websites link in the left-hand column of the Faculty & Staff page, scroll down to find Mathematics and click on Mathematics (Henson) or type in this URL: <http://lpc1.clpccd.cc.ca.us/lpc/math/thenson.htm>
- **Mathematics Department website:** from the LPC home page, select “Academic Programs” under “Quicklinks” (left-hand column), then scroll down to find the “Mathematics” link under the “Mathematics, Engineering and Science” header or type in this URL: <http://www.laspositascollege.edu/math/index.php>

Making mistakes is a natural part of learning mathematics.

David R. Johnson

### SYLLABUS

**TEXTBOOK:** *Beginning & Intermediate Algebra with Applications and Visualization* by Rockswold and Krieger, Pearson/Addison Wesley, 2009.

**REQUIRED COURSE MATERIALS:** MyMathLab™ access code, simple scientific calculator.

**MyMathLab™ COURSE ID: henson66646**

You may purchase the textbook bundled with the access code through the Las Positas College Bookstore. You also have the option of purchasing the access code on-line at **www.mymathlab.com**. Students who do not wish to purchase the textbook have the option of purchasing the access code only and using the e-book which comes with MyMathLab™ access.

**COURSE DESCRIPTION:** Elementary algebra concepts, including: real numbers and their properties; algebraic expressions; integer exponents; operations with polynomial expressions; linear and quadratic equations; linear inequalities and set notation; graphs of linear equations and inequalities; slope; systems of linear equations and inequalities; and, an introduction to rational expressions and modeling with linear and quadratic equations. **Prerequisite: Pre-Algebra** (Mathematics 106 or 107 or 107Y), completed with a grade of “C” or higher or an appropriate skill level demonstrated through the Mathematics assessment process. May not receive credit if Mathematics 65B or 65Y have been completed. 5 lecture hours, 1 laboratory hour.

One hour of lab per week required, to be arranged.

**COURSE CONTENT:** Chapters 1 – 6, all sections, and Chapter 7, sections 1 - 3.

**COURSE OBJECTIVES:** At the end of this course you should be able to

1. perform operations with real numbers;
2. identify properties of real numbers;
3. simplify algebraic expressions;
4. translate a verbal statement into an algebraic expression;
5. solve linear equations in one variable;
6. solve a formula for a specified variable;
7. solve and graph a linear inequality in one variable and express the solution using correct interval or set notation;
8. develop and graph linear equations in two variables using various methods;
9. apply concepts of slopes and rates of change;
10. develop and describe basic linear models;
11. solve systems of linear equations in two variables by graphing;
12. solve systems of linear equations in two variables by either the elimination or the substitution methods;
13. solve linear inequalities in two variables and systems of linear inequalities in two variables;
14. apply the rules for integer exponents;
15. write numbers and perform computations using scientific notation;
16. simplify, add, subtract, multiply and divide polynomial expressions;
17. employ factoring techniques, including the difference of two squares and the sum and difference of two cubes, to factor polynomials completely;
18. solve quadratic and polynomial equations by factoring;
19. simplify rational expressions;
20. multiply and divide rational expressions;
21. add and subtract rational expressions with like denominators;
22. apply algebraic methods to represent, analyze and solve applied problems involving linear and quadratic equations.

### **STUDENT LEARNING OUTCOMES**

Upon successful completion of Math 65, a student should be able to

- Graph the solution set of a given linear equation in two variables using the rectangular coordinate.
- Interpret slope in the context of a problem.
- Solve a polynomial equation using factoring techniques.

## EVALUATION

Your grade in this course will be based on course work (homework, in-class work, lab) and exams. You are expected to complete all assignments on time. If you encounter difficulty completing the required work for the course, please discuss your situation with me. It is expected that all work will reflect your own individual effort and no one else's.

### COURSE WORK (450 points)

Credit for course work will be given based on the percentage of assignments you complete in each area. For instance, if you complete, 90% of the homework assignments required for the semester, you will receive 90% of the possible points.

**HOMEWORK:** Most students think of homework as just doing the assigned exercises in the text, but it is much more than that. **To be successful in this course, it is essential that you spend time reading and reflecting on the material presented in the text, as well as doing the assigned section exercises.** I recommend you take reading notes on each section and that after completing the exercises for that section, you write a brief summary of what you have learned, focusing on the key concepts, definitions, theorems and skills introduced. Your reading notes and section summaries can be a valuable resource when you are reviewing for your exams. Homework will be assigned for every section. Homework is your responsibility.

**On-Line Homework (150 points).** All students enrolled in this course are required to submit homework on-line through the use of the on-line homework system MyMathLab™ (**MyMathLab™ COURSE ID: henson66646**). Homework will be assigned for every section covered in class.

- To receive full-credit for each assignment it must be completed 100% correctly by the due date. If you are unable to complete an assignment by the due date, you may continue to work on it after that date, but you will receive only 70% credit for the completed assignment.
- **NOTE:** If you have completed more than 70% of a homework assignment by the due date, then you should **not** work on it after the due date, as this will change your score to 70%.
- Prior to the due date you must have accessed an assignment at least once. If you have not done that, then you will be locked out of the assignment and will not be allowed to work on it after the due date.

For more information about MyMathLab™, see the MyMathLab™ section at the end of this syllabus.

**Homework Checks (75 points).** For each section covered you will turn in a few problems assigned from the text. Each problem will be individually graded. These problems must be worked completely and correctly to receive full credit. Incorrect work will receive partial credit and you may correct these problems for full credit. No credit will

be given for problems that are not attempted. **Late work will not be accepted unless you receive permission from me, in advance of the due date, to turn it in late.** You may miss a total of five problems without penalty. I reserve the right to refuse to accept late work.

**In-Class Work (75 points).** Attendance and active participation in class are important parts of the math learning experience. It is expected that while in class you will give your full attention to the subject matter at hand. You should not work on homework for this or any other course while in the classroom, unless directed otherwise. In-class work points are earned by doing individual and small-group work in class and may include written- or board-work; you may be asked to complete work outside of class. Your work will be graded and full credit awarded for work that is correct and complete. Incorrect or incomplete work will receive partial credit, but can be corrected or completed for full credit. **There are no make-ups on missed work.** However, you may miss two in-class exercises without penalty.

**TBA Lab Hour and Lab Assignments (150 points).** You are required to complete 17 hours of lab work over the semester by attending the Open Math Lab (OML) in the Integrated Learning Center (ILC), Bldg. 600. You will complete this requirement **by attending lab at least one hour every week** and by completing lab assignments. **You must have logged at least one hour in the ILC prior to the census date for this class (Feb. 6) or you may be dropped from the course.**

You will receive 50 points for completing 17 hours in the lab and 100 points for completing the lab assignments (**provided the lab hour requirement has been met**). Be sure to sign in when you enter the lab and to sign out when you leave so that your time in the lab is accurately recorded. **No credit will be given for lab assignments if the lab hour requirement of 17 hours has not been satisfied.** If you are unable to fulfill your lab hour requirement for a particular week, you must contact me and discuss the circumstances. Lab assignments will be accepted late provided you discuss your circumstances with me and receive permission to hand the work in late. Lab assignments will be graded; you may correct incorrect work for full credit.

You are encouraged to go to the OML on a regular basis. In addition to the assigned activities you are welcome to do your homework in the OML, asking questions as needed. Please take advantage of this resource. It is **free** and the instructors' only job is to answer student's questions.

**EXAMS (800 points).**

**ALL** Examinations are *closed-book* and *closed-note*. Calculators may not be used on exams unless stated otherwise.

**Make-up Policy.** If you miss an exam, you will be allowed to make it up, subject to the following conditions:

- If you know in advance of an exam date that you will not be there and have a good reason for missing the exam, you may make arrangements to take a make-up prior to the test date;
- In the event of an emergency, you must contact me within 24 hours of the test and you must have very compelling reasons for missing the exam. You may be asked to provide documentation to support your reasons for missing the exam.
- The make-up exam must be taken before the missed exam is returned to the class
- Only one make-up exam will be allowed.
- The make-up exam must be taken at a time and place specified by me.

I reserve the right to refuse to give a student a make-up exam.

**Exams (600 points).** You will take four exams as indicated in the course calendar. Each exam is worth 150 points. No exams will be dropped, but you may replace your lowest, **nonzero** exam score with your average on the final, provided that your final exam average is 70% or better. For instance, suppose your lowest in-class exam score is 102 (68%) and your final exam percentage is 76%. I would take 76% of 150, which yields 114, and replace your 102 with the 114. If you miss an exam and do not make it up, you will receive a score of zero for that exam. **You may not use your final exam to replace a zero exam score.**

**Final Exam (200 points).** A comprehensive Final Exam will be given on **Monday, May 21, 5:30 – 7:20**. The final exam will be worth 200 points. Failure to take the Final Exam at the date and time stated will result in a grade of ``F".

### COURSE GRADES

To receive a passing grade in this course your combined average on all exams must be 70% or better. If you have a 70% or better exam average, then your letter grade in this course will be assigned based on the total number points you have earned as follows.

Total Points	Letter Grade
1125 – 1250	A
1000 – 1124	B
875 – 999	C
750 – 874	D
Less than 750	F

If you do not have a 70% exam average at the end of the semester, then a letter grade of D or F will be assigned based on overall performance.

**RESOURCES:** There are a variety of free resources for help in mathematics available to you on campus. These include:

- Instructor's office hours
- Open Math Lab in the Integrated Learning Center (Bldg. 600)
- Tutorial Center (Bldg. 2400)
- On-line tutoring

**Attendance.** You are required to attend class every day. Each day you miss will count against you. Please talk with me if you run into any attendance problems. Note that arriving late or leaving early counts as an absence. The Las Positas College attendance policy will be observed: If you are absent for a total of four consecutive or six cumulative instructional hours and/or two consecutive weeks, you may be dropped from the class at my discretion. (An instructional hour is 50 minutes.)

If you want to drop this class or any other, however, be sure to do it yourself at the Office of Admissions and Records so that it is recorded by the deadline.

**Behavior.** It is expected that you will follow the **Student Conduct Policy** found in the Las Positas College Catalog; you are responsible for reading and understanding this policy. I highlight a few of the rules here.

- Courteous and respectful behavior is expected at all times.
- Cheating will not be tolerated; anyone caught cheating on an exam will receive 0 points for the exam and may be referred to the Dean of Students.
- Pagers and cell phones should be set on vibrate or turned off while in the classroom. You are not allowed to take calls while in class. Please discuss any special circumstances with me.
- Children are not allowed in the classroom by law. Please do not bring visitors to the classroom unless you have cleared it with the instructor before the class begins. Absolutely no visitors are allowed in the classroom during an exam.

**Instructor Absence.** In the event that an emergency occurs and I am unable to make it to class, I will report my absence to the Faculty Absence Line and the room will be posted. Class cancellations are posted on the LPC home page. However, if the class is not posted, but I do not arrive by 5:15 p.m. you may assume the class is cancelled. Should this (extremely unlikely) event occur on the day of a scheduled exam, then the exam will be given at the next class meeting.

### IMPORTANT DATES

Tuesday, January 17	Instruction begins
Friday, February 3	Last day to ADD or drop NGR in person
Sunday, February 5	Last day to ADD or drop NGR via CLASS-Web
Thursday, February 16	<b>Last day to apply for pass/no pass</b>
<b>Friday, February 17 – Monday, February 20</b>	<b>Presidents Weekend (no instruction)</b>
<b>Thursday, March 29</b>	<b>Office hour cancelled (Faculty “Flex” day)</b>
Friday, April 6	Last day to withdraw with a “W”
<b>Monday, April 9 – Saturday, April 14</b>	<b>Spring Break (no instruction)</b>
Friday, May 18	Last Day of Classes
<b>Monday, May 2</b>	<b>Final Exam, 5:30 – 7:20 p.m.</b>

**NOTE:** The instructor reserves the right to change this syllabus to improve the class after giving due notice of the change.

**PLEASE KEEP THIS PAPER FOR FUTURE REFERENCE**

## MYMATHLAB™

### To get access to MyMathLab:

1. Go to [www.mymathlab.com](http://www.mymathlab.com).
2. Click **Student** under '**Register**' on the MyMathLab home page.
3. Enter your course ID where prompted. For this course, your course ID is:.
4. Follow the instructions to register and enroll. You will be asked to:
  - o Enter your course ID and click **Find Course**.
  - o Verify the course information.

You have two options for how to purchase an access code.

1. You purchase a NEW textbook that comes shrink-wrapped with a MyMathLab access code in the front from the Bookstore. The access code that is provided with the new book is only good for one-person.
2. You can purchase an access code for approximately \$80, using a credit card by clicking the "purchase now" button. You will need a valid credit card. This access is good for 2 years and any course that uses the same textbook. It also includes an ebook, which is an electronic copy of the textbook.
  - o Click **Next** and follow the instructions to complete the registration

Review the Confirmation & Summary page and print the page for your records.

Click **Log In Now** to enter your course.

If you already have used an access code for a course using this same textbook, then you want to log in to [www.mymathlab.com](http://www.mymathlab.com) and then click on the add a course option under the MyMathLabCourses heading on the left-hand side.

**Use the Learning Resources provided by MyMathLab™.** Your MyMathLab™ access code gives you access on any computer to a wealth of on-line resources keyed to your text, the topics you are studying and the homework exercises you are working.

- When working homework problems you can use the "View an Example" and "Help Me Solve This" buttons to get instant help with a problem.
- Many exercises include a short video clip which you can watch, to help you learn how to solve the problem (click on the "Video" button).
- You can also access the section in the textbook which is related to the problem you are working by clicking on the "Textbook" button.
- Finally, if you are working at home and encounter a problem, you can use the "Ask My Instructor" button to send an email question to your instructor which will link your instructor to the problem you are having difficulty with.
- In addition, the "Tools for Success" button gives you access to a variety of helpful features.