

Rogue Community College
Math 60 – Fundamentals of Algebra I

Instructor: Tracy Davenport

Email: tdavenport@roguecc.edu

Office: Wiseman Center - W8 Office Phone: 541-956-7228 with voicemail

Office Hours: 2-3pm MTWR or by appointment

Spring 2017

MTWR 11-11:50am

Rm RWC-CH9A

Course Description: Beginning algebra introduces the study and application of real numbers, operations with real numbers, exponents, order of operations with linear expressions, mathematical modeling, solving linear equations, methods of problem solving, slope, graphs of lines, equations of lines, and systems of linear equations. Working with real data, formulas, and applications will be stressed.

Prerequisites: MTH 20 and RD 30, or designated placement test score as shown on current indicator chart.

Students with Disabilities: Students who believe they may need academic accommodations for a disability such as those related to vision, hearing, orthopedics, learning, psychological functioning, and/or other medical conditions should make an appointment with the Rogue Community College Disability Services office. Redwood Campus, Wiseman Tutoring Center, 541-956-7337. Any student who feels she or he may need an accommodation for any disability should advise me of this.

Grading: This course is **Pass/No Pass**. The term grade is based on categories weighted as outlined below. Assessments for the class include homework, quizzes, exams, and projects. Attendance at all class meetings is expected. If you miss a class it is your responsibility to obtain all materials missed.

<u>Grade Breakdown</u>	
Homework	10%
Project(s)	5%
On-line HW	5%
Quizzes/Exams	55%
Final Exam	25%
Total	100%

70% or better **Pass**
below 70% **No Pass**

*** **Homework** is due each day after it is assigned at the beginning of class, unless otherwise noted.

Homework solutions will be written on the board with a group. Late assignments will not be accepted. (See TURN-IN Homework sheet for problems and for homework expectations.)

*** Information about special **projects** will be discussed as needed.

*** The **online homework** will be computer scored as a percentage out of 100%. It is due on the dates listed and is recommended to be completed by these dates (see ONLINE Homework sheet). You will be allowed to access the online homework late, up until the day before the chapter test.

*** **Quizzes** are taken in class throughout each chapter in order for you to assess what you know.

Quizzes are no notes and no calculator. There are optional online mastery quizzes available after you finish each online hw assignment; they are not part of your overall grade.

*** There will be 3 **exams** given during class, tentatively on the dates listed. Make-up exams will be penalized by 10% automatically. If you are unable to attend on the day of an exam for a serious and compelling reason, you must contact me in advance to arrange to take a make-up. Exams are no notes and may have a non-calculator and a calculator portion.

*** The **final exam** will be a cumulative knowledge exam. **To pass this course a 70% is required on this exam!**

Important Dates to Remember:

Apr 12	Last day to add classes; deadline to drop a class without a grade of “W”
May 5	No school – Spring Inservice
May 26	Deadline to withdraw, change to audit
May 29	Holiday – Memorial Day
June 16	End of term

Required Materials:

- Text: *Elementary and Intermediate Algebra: Graphs and Models*, 4th edition, Pearson Education, Inc., Bittinger, Ellenbogen and Johnson, 2012. (We will cover Chpts 1-4.)
- MyMathLab access for online homework. <http://www.roguecc.edu/MyLabsPlus>
- A scientific calculator is required.

Tentative Class Schedule:

Week	<u>MONDAY</u>	<u>TUESDAY</u>	<u>WEDNESDAY</u>	<u>THURSDAY</u>
3-6 Apr	Intro, Brain Activity	Sec 1.1	Sec 1.4/1.2	Sec 1.3
10-13 Apr	Sec 1.5,1.6,1.7	Sec 1.8	Review	TEST Ch 1
17-20 Apr	Sec 2.1	Sec 2.2	Sec 2.2/2.3	Sec 2.3
24-27 Apr	Geometry	Sec 2.4	Sec 2.5	Sec 2.5
1-4 May	Sec 2.6	Sec 2.7	Review	TEST Ch 2
8-11 May	Sec 3.1	Sec 3.2	Sec 3.3	Sec 3.4
15-18 May	Unit Analysis	Sec 3.5	Sec 3.6	Sec 3.7
22-25 May	Sec 3.7 / Excel	Sec 3.8	Review	TEST Ch 3
29 May – 1 June	No school	Sec 4.1	Sec 4.2	Sec 4.3
5-8 June	Solving systems	Sec 4.4	Sec 4.4	Review, Quiz Ch 4
12-15 June	Projects/Review	Final Review	FINAL Exam	Grade day

Getting Help:

- Please feel free to call me, stop by my office, or email me with any questions.
- View my website for online versions of the syllabus and other class information at <http://go.roguecc.edu/user/tdavenport>.
- The Tutoring Center in the Wiseman Building has tutors all day long and into the evening.
- The online resources are abundant! Go to <http://www.roguecc.edu/MyLabsPlus> and log on to your account. Use the **Study Plan** button to try practice problems. The **Multimedia Library** button has many good resources – including videos and power point presentations.
- Consider registering for MTH 60 Recitation **Fridays 9-9:50am in Z2**.
- ~~Consider registering for **CG111 Study Skills for Math Success** on Thursdays.~~

Expectations:

- Student code of conduct expectations can be found at http://www.roguecc.edu/BoardPolicies/appendix_3.htm under Rights and Responsibilities.
- Cell phones and pagers should be on silent, vibrate mode, or turned off while you are in class and if you must leave during class please do so quietly.
- Any student caught or suspected of cheating could face disciplinary action including, but not limited to; a failing grade on the assignment/test, a failing grade for the course, or suspension from the class.

Course Outcomes, ILO (Institutional Learning Outcomes) Indicators and Assessment: On successful completion of this course, the students will be able to:

Expected Outcomes:	ILO Key Indicators:	Assessment Methods:
<p>1. Use mathematical problem solving techniques involving rational numbers, exponents, order of operation, linear equations, and systems of equations. These techniques include the use of graphical, symbolic, narrative and tabular method of analysis. Students will use estimation to judge the reasonableness of results.</p>	<p>COM 2 - <i>Express ideas clearly in oral, written and visual work.</i> CT 3 - <i>Locate, organize, analyze, and interpret data.</i> AK 3 - <i>Apply knowledge and skills through a global perspective with an awareness of context, personal assumptions, and worldview.</i> AK 4 - <i>Use numeracy skills for interpretation, synthesis, and analysis of data.</i></p>	<p>1. Criterion referenced tests and quizzes for specific vocabulary skills, concepts, class discussions and daily problem assignments.</p> <p><i>Pre and post surveys, class homework, group work, class discussions, and instructor observation.</i></p>
<p>2. Create linear models of real world situations.</p>	<p>CT 3 - <i>Locate, organize, analyze, and interpret data.</i> AK 1 - <i>Demonstrate ability to transfer learning in familiar and unfamiliar contexts in order to complete tasks.</i> AK 2 - <i>Integrate previous and new learning, along with practical skills, to solve problems.</i></p>	<p>2. Criterion referenced tests and quizzes for specific vocabulary, skills, concepts, and daily problem assignments.</p> <p><i>Pre and post surveys, class homework, group work, class discussions, and instructor observation.</i></p>
<p>3. Use inductive reasoning to develop mathematical conjectures involving real numbers, algebraic notation, linear models, exponents, and systems of linear equations. Use deductive reasoning to verify and apply mathematical arguments involving real numbers, algebraic notation, linear models, exponents and systems of linear equations.</p>	<p>CT 3 - <i>Locate, organize, analyze, and interpret data.</i> AK 2 - <i>Integrate previous and new learning, along with practical skills, to solve problems.</i> CT 4 - <i>Envision creative approaches to issues and problems.</i></p>	<p>3. Criterion referenced tests and quizzes for specific vocabulary, skills, concepts, daily problem assignments, and in-class observations.</p> <p><i>Pre and post surveys, class homework, group work, class discussions, and instructor observation.</i></p>
<p>4. Make mathematical connections to, and solve problems from other disciplines that can be represented using real numbers, algebraic notation, and linear models.</p>	<p>AL 3 - <i>Internalize and assimilates information into new situations.</i> CT 3 - <i>Locate, organize, analyze, and interpret data.</i> AK 1 - <i>Demonstrate ability to transfer learning in familiar and unfamiliar contexts in order to complete tasks.</i> AK 2 - <i>Integrate previous and</i></p>	<p>4. Criterion referenced tests and quizzes for specific vocabulary, skills, concepts, project completion and presentations.</p> <p><i>Pre and post surveys, class homework, group work, class discussions, and instructor observation.</i></p>

Expected Outcomes:	ILO Key Indicators:	Assessment Methods:
	<i>new learning, along with practical skills, to solve problems.</i>	
5. Use organized oral and written skills to individually and collaboratively communicate about real numbers, algebraic and numeric notation, linear expressions and equations, exponents and systems of linear equations.	<p>COM 2 - <i>Express ideas clearly in oral, written and visual work.</i></p> <p>COM 3 - <i>Collaborate effectively to achieve course/learning goals.</i></p>	<p>5. Criterion referenced tests and quizzes for specific vocabulary, skills, concepts, daily problem assignments, in-class observations, and project completion and presentations.</p> <p><i>Pre and post surveys, class homework, group work, class discussions, and instructor observation.</i></p>
6. Use appropriate technology to enhance their mathematical thinking and understanding of and to solve problems involving real numbers, algebraic notations and linear expressions and equations, and judge the reasonableness of their results.	<p>CT 3 - <i>Locate, organize, analyze, and interpret data.</i></p> <p>AK 1 - <i>Demonstrate ability to transfer learning in familiar and unfamiliar contexts in order to complete tasks.</i></p>	<p>6. Criterion referenced tests and quizzes for specific vocabulary, skills, concepts, and daily problem assignments.</p> <p><i>Pre and post surveys, class homework, group work, class discussions, and instructor observation.</i></p>