

Saint Louis Christian College
GMA012 – Elementary Algebra
Professor Jon-Michael D. Brown I
3 Hours, Not for Credit

SPRING 2012

Prerequisite: GMA001 or Satisfactory Accuplacer Score

Tuesday and Thursday

8:55 – 10:10 a.m.

MISSION STATEMENT:

Saint Louis Christian College pursues excellence in the Word and develops servant-leaders for urban, suburban, rural, and global ministry.

COURSE DESCRIPTION:

Students learn basic skills of algebraic calculations and problem solving. Topics include order of operations, polynomials, exponents, scientific notation, linear and quadratic equations, inequalities, and graphs of linear equations and curves. The final grade of this course will be either S for Satisfactory or U for Unsatisfactory.

COURSE RATIONALE:

This course is one of the college preparation courses at SLCC. College preparation courses help develop the skills and abilities of students so they can do college level work in the required mathematics, English, and music courses. The final grades of these courses are either "S" for satisfactory, or "U" for unsatisfactory. Students will need to earn an 80% (C) or higher to receive a satisfactory grade. College preparation courses do not apply toward the student's GPA, nor are they computed in determining academic standing. Credits earned do not count as a part of the total required credits in the degree programs at SLCC.

COURSE OBJECTIVES:

Upon completion of this course, the student should be able to:

1. Analyze and solve problems order of operations
2. Analyze and solve problems involving polynomials
3. Analyze and solve problems involving exponents
4. Analyze and solve problems involving scientific notation
5. Analyze and solve problems involving linear and quadratic equations
6. Analyze and solve problems involving inequalities.
7. Analyze and solve problems involving graphing linear equations and curves.

COURSE REQUIREMENTS:**Attendance and Participation:**

Attendance is expected and essential in learning the concepts involved in this algebra course. This class meets 28 times. According to school policy, if you miss the equivalent of 25% of the class sessions, for any reason, you will be withdrawn from the class with a grade of F.

Please be on time. Four tardies will be counted as an absence.

It is expected that you will bring your book, notebook, pencil and calculator to each class session.

Examinations and Quizzes:

Examinations and quizzes will test the student's ability to analyze and solve algebraic problems. There will be four hour-long exams as well as a final exam. There will also be 11 quizzes. The best 10 scores on the quizzes will be counted (your lowest score will be dropped).

Please be present on exam and quiz days. Exam and quiz dates are listed on the Schedule of Topics at the end of this syllabus. If you must miss on a scheduled exam or quiz date, please notify the instructor ahead of time. Missed quizzes and exams due to a scheduled school activity or unplanned emergency may be made up at the discretion of the professor. Students may retake the exams, except the final, for any score lower than 80%, if arrangements are made with the professor.

Homework Assignments:

Homework practice is essential to the learning process in mathematics. Homework will be collected at the beginning of each session. Due dates of assignments are listed on the Course Schedule of this syllabus. **No late homework will be accepted. Homework must be completed in pencil.**

Notebook:

You will be expected to keep a notebook (3-ring binder) to be turned in four times in the semester. The notebook will contain the following five sections and should be in order:

- 1) Syllabus
- 2) Notes
- 3) Homework assignments
- 4) Quizzes
- 5) Exams

COURSE ASSESSMENT

The final grade will be determined by the following criteria:

Hour Exams (4)	50%
Quizzes (Best 10)	15%
Homework completion	10%
Notebook	10%
Final Exam	15%
	<hr/> 100%

COURSE SCHEDULE

DATE	TOPIC	ASSIGNMENT (do odd # problems)
Tues. – 1/10	Introduction 1.4 Variable Expressions and Equations	
Thur. – 1/12	1.8 Properties of Real Numbers	1.4 #1-89
Tues. – 1/17	Quiz 1 (1.4 & 1.8) 2.1 Simplifying Algebraic Equations	1.8 #1-89
Thur. – 1/19	2.2 Addition and Multiplication Properties of Equality	2.1 #1-81
Tues. – 1/24	Quiz 2 (2.1 & 2.2) 2.3 Solving Linear Equations	2.2 #1-93
Thur. – 1/26	2.4 Problem Solving	2.3 #1-65
Tues. – 1/31	EXAM 1 (1.4, 1.8, 2.1, 2.2, 2.3, & 2.4)	Turn in notebook 2.4 #1-63
Thur. – 2/2	2.7 Solving Linear Inequalities	
Tues. – 2/7	Quiz 3 (2.7) 5.1 Exponents	2.7 #1-31
Thur. – 2/9	5.2 Polynomials	5.1 #1-103
Tues. – 2/14	Quiz 4 (5.1 & 5.2) 5.3 Multiplying Polynomials	5.2 #1-89
Thur. – 2/16	5.4 Special Products	5.3 #1-95
Tues. – 2/21	Quiz 5 (5.3 & 5.4) 5.5 Negative Exponents & Scientific Notation	5.4 #1-79
Thur. – 2/23	EXAM 2 (2.7, 5.1 – 5.5)	Turn in notebook 5.5 #1-103
Tues. – 2/28	6.1 Greatest Common Factor and Factor by Grouping	
Thur. – 3/1	NO CLASS: BOATMAN LEADERSHIP	
Tues. – 3/6	6.2 Factoring Trinomials	6.1 #1-85
Thur. – 3/8	Quiz 6 (6.1-6.2) 6.3 More Trinomial Factoring	6.2 #1-69
Tues. – 3/13	6.4 More Trinomial Factoring	6.3 #1-93
Thur. – 3/15	Quiz 7 (6.3, 6.4) 6.5 Factoring Binomials	6.4 #1-53

Tues. – 3/20	NO CLASS – LAB WEEK	
Thur. – 3/22	NO CLASS – LAB WEEK	
Tues. – 3/27	Quiz 8 (6.5) 6.6 Solving Quadratic Equations	6.5 #1-69
Thur. – 3/29	EXAM 3 (6.1 – 6.6)	Turn in notebook
Tues. – 4/3	NO CLASS: EASTER BREAK	
Thur. – 4/5	9.1 Compound Inequalities	6.6 #1-87
Tues. – 4/10	9.2 Absolute Value Equations	9.1 #1-71
Thur. – 4/12	9.3 Absolute Value Inequalities	9.2 #1-73
Tues. – 4/17	Quiz 9 (9.1, 9.2, 9.3) 11.1 Completing the Square	9.3 #1-81
Thur. – 4/19	Quiz 10 (11.1) 11.2 Quadratic Formula	11.1 #1-77
Tues. – 4/24	Quiz 11 (11.2) Review	11.2 #1-65
Thur. – 4/26	EXAM 4 (9.1, 9.2, 11.1, 11.2)	Turn in notebook
5/1 – 5/3	Finals Week	

COURSE STUDENT LEARNING RESOURCES

Required Text: Martin-Gay, K. Elayn. Beginning and Intermediate Algebra (4th Edition). Upper Saddle River, New Jersey: Pearson Prentice Hall, 2005.

Any handheld calculator.

Chapter Test Prep Video, included with required text.

COURSE POLICIES

1. All work is due at the beginning of the class period. No late work will be accepted.
2. The student may use hand held calculators on all homework assignments and on quizzes and examinations.
3. If you have a diagnosed learning disability, please see personnel in *The Hundred* (Student Center for Success) to discuss strategies that would enhance your ability to learn. The professor cannot implement any special accommodations without authorization from *The Hundred*.
4. Please understand that the professor reserves the right to modify this course by changing topics, due dates, or even assignments so long as it does not add to the student's workload.
5. Please do not eat or drink in class.
6. Please do not use cell phones or other electronic devices.
7. Courtesy and a positive regard for the learning of others is expected at all times. Disruptive students will be asked to leave the room and will be counted as absent for the day.

INSTRUCTOR CONTACT INFORMATION

Professor Jon-Michael David Brown I
Saint Louis Christian College
1360 Grandview Dr.
Florissant, MO 63033
Office Hours* (Room 210) Will be posted on my door.
Phone: 314-837-6777 ext.1510
Cell: 314-322-2588
E-mail: jbrown@slcconline.edu

*Feel free to contact me outside of my office hours