

**Angelina College**  
**Division of Science and Mathematics**  
**Spring 2019 MATH 0320 – Introductory Algebra MW**  
**Instructional Syllabus**

**I. BASIC COURSE INFORMATION:**

**A. Course Description**

**Mathematics 0320-Introductory Algebra**

Operations in the set of real numbers. Beginning algebraic concepts, skills, and applications. Solving and graphing linear equations, inequalities, and systems of equations. This course may not be used for degree credit and is not intended for transfer to a senior college. Three lecture hours and one laboratory hour each week. Lab fee.

**B. Intended Audience:**

The intended audience is any student needing to strengthen their mathematics background before taking credit level Mathematics courses.

**C. Instructor : Jody Anderson**

Office Location: S-203 A

Office Hours: As posted on the office door

Phone: 936 633-5361

E-mail Address: banderson@angelina.edu

**II. INTENDED STUDENT OUTCOMES:**

**A. Core Objectives Required for this Course**

1. **Critical Thinking:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. **Communication:** to include effective development, interpretation and expression of ideas through written, oral and visual communication
3. **Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

**B. Course Learning Outcomes for all Sections**

1. Define, represent, and perform operations on real numbers.
2. Recognize, understand, and analyze features of algebraic expressions and equations.
3. Recognize and use algebraic properties, concepts, procedures, and algorithms to combine, transform, and evaluate polynomial expressions.
4. Identify and solve linear equations in one or more variables.
5. Identify and solve linear inequalities and systems of linear equations.
6. Model, interpret, and justify mathematical ideas and concepts using multiple representations.
7. Connect and use multiple strands of mathematics in situations and problems, as well as in the study of other disciplines.

**III. ASSESSMENT MEASURES**

**A. Assessments for the Core Objectives**

1. **Critical thinking:** Students will demonstrate the application of critical thinking skills by utilizing reading, creative and appropriate problem solving techniques, and appropriate mathematical tools to solve problems. These skills will be assessed using a rubric in embedded test questions and/or written homework problems.
2. **Communication:** Students will communicate mathematical information using complete and correct notation and written and visual communication skills. A rubric will be used to assess written, oral, and visual communication skills.

3. **Empirical and Quantitative Skills:** Students will use empirical and quantitative skills to answer embedded test questions. These will be assessed using a rubric.

#### **B. Assessments for Course Learning Outcomes**

1. The student's ability to define, represent, and perform operations on real numbers will be assessed through embedded test questions.
2. The student's ability to recognize, understand, and analyze features of algebraic expressions and equations will be assessed through embedded test questions.
3. The student's ability to recognize and use algebraic properties, concepts, procedures, and algorithms to combine, transform, and evaluate polynomial expressions will be assessed through embedded test questions.
4. The student's ability to identify and solve linear equations in one or more variables will be assessed through embedded test questions.
5. The student's ability to identify and solve linear inequalities and systems of linear equations will be assessed through embedded test questions.
6. The student's ability to model, interpret, and justify mathematical ideas and concepts using multiple representations will be assessed through embedded test questions.
7. The student's ability to connect and use multiple strands of mathematics in situations and problems, as well as in the study of other disciplines will be assessed through homework problems.

#### **IV. INSTRUCTIONAL PROCEDURES:**

The course is taught using a combination of lectures, discussions, and practice exercises. The amount of time spent using any one technique will vary from class to class and from lesson to lesson as determined to be most appropriate by the instructor.

#### **V. COURSE REQUIREMENTS AND POLICIES:**

##### **A. Required Textbooks and Recommended Readings, Materials and Equipment**

1. Introductory and Intermediate Algebra for College Students, 5th ed. by Blitzer (Pearson).
2. Access to MyLabsPlus (included with new book bought at AC bookstore). A student may be dropped who has not enrolled in MyLabsPlus by January 31<sup>st</sup>.
3. The Angelina College mathematics program, including the developmental program, strives to keep up with modern standards. Therefore, in this course, students are **required** to bring and use a graphing or scientific calculator. **A graphing calculator (TI-83 or TI-84) is strongly recommended for students who plan on advancing to Math 0330 (Intermediate Algebra).**
4. Technical Support – Technical issues do not excuse late homework. Please contact Pearson at 888-883-1299, or contact our lab specialist.

##### **B. Course Policies – This course conforms to the policies of Angelina College as stated in the Angelina College Handbook.**

**1. Educational Accommodations** – If you have a disability (as cited in Section 504 of the Rehabilitation Act of 1973 or Title II of the Americans with Disabilities Act of 1990) that may affect your participation in this class, you may fill out the Educational Accommodations application within your AC Portal, under the “Student Services” tab. A Student Success team member will contact you once the application is received. At a post-secondary institution, you must self-identify as a person with a disability in order to receive services; for questions regarding the application process you can visit the Office of Student Success and Inclusion in the Student Center (Room 200) or email [access@angelina.edu](mailto:access@angelina.edu). To report any complaints related to accommodations, you should contact Annie Allen, Director of Student Success & Inclusion, in Room 200 of the Student Center. You may also contact Ms. Allen by calling (936)633-4509 or by emailing [aallen@angelina.edu](mailto:aallen@angelina.edu). To report discrimination of any type, contact Steve Hudman, Dean of Student Affairs, at (936) 633-5292 or [shudman@angelina.edu](mailto:shudman@angelina.edu).

2. **Attendance** – Attendance is required as per Angelina College Policy and will be recorded every day. Any student with three (3) consecutive absences or four (4) cumulative absences may be dropped from the class. Not working on assignments, including MyLabsPlus homework, is considered non-participation which also subjects you to being dropped from the course. Records will be turned in to the academic dean at the end of the semester. Do not assume that non-attendance in class will always result in an instructor drop.

**i. Additional Policies Established by the Instructor**

1. **STUDENT CONDUCT** A positive environment for learning will be maintained by students being courteous to each other and to the instructor. Eating, drinking, sleeping, and distracting conversations during lecture will not be allowed. Repeated tardiness will result in warning; if continued this will result in further action depending on upon seriousness of problem. Regular attendance is also expected as per college policy.
2. **Cheating** on tests is not tolerated as per Angelina College policy and may result in expulsion from the course. Plagiarism is not tolerated and will result in a zero for any assignment in which it is detected.
3. **CELL PHONES** Cell phones must be turned off or on the silent mode. Students may not have access to cell phones during quizzes and/or tests.

2. **COURSE OUTLINE:** See attached COURSE SCHEDULE

3. **EVALUATION AND GRADING:**

- a. The course grade will be determined by taking the total points earned dividing by the total possible number of points a student can earn, 750 points. Grades will be rounded to the nearest unit, and assigned a letter grade based on the following scale:

Average Grade	Letter Grade
90-100	A
80-89	B
70-79	C
60-69	IP*
59 & below	F or IP**

\*"IP" means in progress and the course must be repeated.

\*\*For the instructor to consider whether or not to record a grade of IP, rather than an F, the student must show a consistent effort to pass the class with regular attendance, completing homework assignments, and taking exams (including the final exam).

- b. Your grade will be assessed by:

- i. Four tests valued at 100 points each for a total of 400 points.

ii. **MAKE UP EXAMS**

No make-up exams will be offered. The grade on the final exam can replace the lowest exam grade, including grades from a missed exam.

- iii. Homework on MyLabsPlus valued at 100 points. **Each homework assignment has a due date which is 11:59pm on the day of the next class meeting. There will be a daily 10% penalty for work completed after the due day (up to 5 additional days). The homework grade will be a zero if not done within 5 days of the due date.**

1. Class work, daily quizzes, notebook checks, and/or other homework valued at 100 points total.
2. A comprehensive final examination valued at 150 points.

***The instructor may modify the provisions of the syllabus to meet individual class needs by informing the class in advance as to the changes being made.***

***Note: The last day to drop a class is April 2<sup>nd</sup>. You must officially drop a class or risk receiving an F.***

**MATH 0320 Spring 2019 — Course Content and Assignments MW**

<b>Lesson</b>	<b>Date</b>	<b>Sections</b>	<b>Pages</b>	<b>Description</b>
1	01/14	1.1	2 - 10	Introduction to Algebra: Variables and Mathematical Models
2	01/16	1.2	14 - 28	Fractions in Algebra
		1.3	32 - 41	The Real Numbers
		1.4	44 - 52	Basic Rules of Algebra
3	01/23	1.5	56 - 62	Addition of Real Numbers
		1.6	65 - 70	Subtraction of Real Numbers
4	01/28	1.7	74 - 84	Multiplication and Division of Real Numbers
		1.8	88 - 99	Exponents and Order of Operations
5	01/30	<b>Review</b>		
6	02/04	<b>Test 1</b>		Chapter 1(No Calculator)
7	02/06	2.1	114-120	The Addition Property of Equality
		2.2 A	122-129	The Multiplication Property of Equality (Multiplication Property Only)
8	02/11	2.2 B	122-129	The Multiplication Property (Addition and Multiplication Property)
		2.3 A	132-140	Solving Linear Equations
9	02/13	2.3 B	132-140	Solving Linear Equations (Fractions, Decimals, No solution, All Real #s)
		2.4	144-152	Formulas and Percents
10	02/18	2.5	156-164	An Introduction to Problem Solving
11	02/20	2.7	182-194	Solving Linear Inequalities
12	02/25	<b>Review</b>		
13	02/27	<b>Test 2</b>		Chapter 2
14	03/04	5.1	344-349	Adding and Subtracting Polynomials
15	03/06	5.2	353-360	Multiplication of Polynomials
16	03/18	5.3	363-368	Special Products
17	03/20	5.5	381-387	Dividing Polynomials
		5.7	404-413	Negative Exponents and Scientific Notation
18	03/25	<b>Review</b>		
19	03/27	<b>Test 3</b>		Chapter 5
20	04/01	3.1	210-219	Graphing Linear Equations in Two Variables
21	04/03	3.2	223-230	Graphing Linear Equations Using Intercepts
		3.3	234-240	Slope
22	04/08	3.4	245-251	The Slope-Intercept Form of the Equation of a Line
23	04/10	3.5	255-262	The Point-Slope Form of the Equation of a Line
24	04/15	<b>Review</b>		
25	04/17	<b>Test 4</b>		Chapter 3
26	04/22	4.1	276-284	Solving Systems of Linear Equations by Graphing
27	04/24	4.2	288-293	Solving Systems of Linear Equations by the Substitution Method
28	04/29	4.3	297-303	Solving Systems of Linear Equations by the Addition Method
29	05/01	<b>Review</b>		All Chapters
30	Final			<b>FINAL EXAM Comprehensive</b>