

Angelina College
Science and Mathematics Division
Math 0130 – (Hybrid)
Instructional Syllabus - Spring 2018

I. BASIC COURSE INFORMATION

A. Mathematics Special Developmental Education: Non-Course Competency-Based Option (NCBO) NCBM 0130. A study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. Requirements: 8 weeks minimum and earn a grade of Pass or Fail (70% average or better). The NCBM cannot be used toward credit for an associate degree and is not intended for transfer to a senior college. Eligibility: TSI assessment score of 348-349 and DE Level 6. Benefit: Paired with Math 1314 with required course grade of a C or better, credit earned can be used in an associate degree. Attendance is required in lecture and lab hours. **Prerequisite: Students must have taken a TSI approved assessment the previous semester and obtain approval from the Mathematics & Science Division director.** Lab fee .

B. Intended Audience - The intended audience is any student needing remediation in topics covered in MATH 0330, while allowing the student to enroll in College Algebra (MATH 1314).

C. Instructor

George Reed
Office: S211
Phone: 936-633-5485
E-mail: greed@angelina.edu
Office Hours: to be determined by instructor.

II. INTENDED STUDENT OUTCOMES

A. Core Competencies - (Basic Intellectual Competencies)

1. Reading: Reading at the college level means the ability to analyze and interpret a variety of printed materials -books, articles, and documents. A core curriculum should offer students the opportunity to master both general methods of analyzing printed materials and specific methods for analyzing the subject matter of individual disciplines.

2. Writing: Competency in writing is the ability to produce clear, correct, and coherent prose adapted to purpose, occasion, and audience. Although correct grammar, spelling, and punctuation are each a sine qua non in any composition, they do not automatically ensure that the composition itself makes sense or that the writer has much of anything to say. Students need to be familiar with the writing process including how to discover a topic and how to develop and organize it, how to phrase it effectively for their audience. These abilities can be acquired only through practice and reflection.

3. Speaking: Competence in speaking is the ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience. Developing this competency includes acquiring poise and developing control of the language through experience in making presentations to small groups, to large groups, and through the media.

4. Listening: Listening at the college level means the ability to analyze and interpret various forms of spoken communication.

5. Critical Thinking: Critical thinking is the dynamic process of questioning preconceptions and biases through the gathering and evaluation of data to reach new conclusions that consider realistic implications and consequences.

6. Computer Literacy: Computer literacy at the college level means the ability to use computer-based technology in communicating, solving problems, and acquiring information. Core-educated students should have an understanding of the limits, problems, and possibilities associated with the use of technology, and should have the tools necessary to evaluate and learn new

technologies as they become available. (The Texas Higher Education Coordinating Board. ("Report of Subcommittee on Core Curriculum", March 1, 1989).

B. Learning Outcomes -

C. Course Objectives for All Sections - No additional course objectives for this course.

D. Course Objectives as Determined by the Instructor - No additional course objectives for this instructor.

III. ASSESSMENT MEASURES OF STUDENT LEARNING OUTCOMES

A. Assessments for the Core Intellectual Competencies

1. Reading - Competency in reading is not assessed in this course.
2. Writing - Competency in writing is assessed by evaluating the clarity and appropriateness of the student's written responses related to the document used in an assigned project.
3. Speaking - Competency in speaking is not assessed in this course.
4. Listening - Competency in listening is not assessed in this course.
5. Critical Thinking - Competency in critical thinking is **assessed** through an assigned project by analyzing student performance involving both synthesis and evaluation skills.
6. Computer Literacy - Competency in computer literacy is assessed through the student's ability to acquire information from an assigned website embedded in a project.

B. Assessments for the Learning Outcomes – N/A

C. Assessments for Objectives for All Sections - N/A

D. Assessments for the Course Objectives as Determined by the Instructor - N/A

IV. INSTRUCTIONAL PROCEDURES

A. Methodologies Common to All Sections

This course will be taught using a combination of online lecture videos, discussions, and practice exercises.

B. Methodologies Determined by the Instructor

Methodologies are the same as part A (above).

V. COURSE REQUIREMENTS AND POLICIES

A. Required Textbooks, Materials, and Equipment

This course does not require the use of a text book. It does require an access code for MyLabsPlus from Pearson. **Note:** Two different access codes are NOT required. The access code for Math 1314 will be used for this course, and your assignments for this class will be pencil and paper worksheet handouts.

B. Assignments

1. Specific assignments required for all students
See the attached SUPPLEMENTAL ASSIGNMENTS
2. Appropriate due dates, schedules, deadlines, etc. as determined by the instructor
See the attached SUPPLEMENTAL ASSIGNMENTS
3. Additional specific assignments which may be required of students by the instructor
Individual projects will be assigned during the semester.

C. Course Policies - (This course conforms to the policies of Angelina College as stated in the Angelina College Handbook.)

Academic Assistance – 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 should see Maria Lopez or Steve Hudman in room 200 of the Student Center. At a postsecondary institution, you must self-identify as a person with a disability; Ms. Lopez and Mr. Hudman will assist you with the necessary information to do so. To report any complaints of discrimination related to disability, you should contact Mr. Steve Hudman, Dean of Student Affairs, in Room 101 of the Student Center. You may also contact Dean Hudman by phone at [\(936\) 633-5292](tel:936-633-5292) or by email shudman@angelina.edu.

Attendance - This course conforms to the Angelina College attendance policy as stated in the Angelina College Policies and Procedures Manual. Students must meet with the instructor face to face once a week for a minimum of one hour, in addition to their regular College Algebra class.

Additional Policies Established by the Individual Instructor - Classes with internet based homework assignments require a greater degree of responsibility than traditional classes. You must find time in your schedule to work on the NCBM 0130 class assignments as well as your College Algebra class homework. Do not allow yourself to fall behind on your assignments.

Computer problems are NOT an acceptable excuse for not completing assignments. If you do not have a reliable computer, you should not be taking an internet course.

VI. COURSE CONTENT

A. Required Content/Topics

See the attached SUPPLEMENTAL ASSIGNMENTS

B. Additional Content - N/A

VII. EVALUATION AND GRADING

A. Grading Criteria – 70% mastery of the content.

B. Determination of Grade – Pass or Fail.

VIII. SYLLABUS MODIFICATION

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 to student: Although this course requires no textbook, the student is strongly encouraged to use the textbook for Math 1314, as well as any other algebra text, as a supplement to this course.

Students should make every effort to keep up with or stay ahead of the assignment schedule. While this course is only 8 weeks long, there are several assignments to work through in addition to your Math 1314 homework and it will require time and dedication on your part to complete. Remember, do your best on the each of the worksheets! Each one has been constructed in order to prepare you for the assignments that you will have to do in your College Algebra course.

This is the course schedule for the first two weeks of Math 1314, college algebra. These are the topics that we will be reviewing in Math NCBM 0130.

<u>Week</u>	<u>Date</u>	<u>Sections</u>	<u>Pages</u>	<u>Description</u>
1	01/17-01/18	1.3	28 – 44	Properties of Exponents
		1.4	45 – 60	Properties of Radicals
2	01/24-01/25	1.5	61 – 76	Polynomials and Factoring
		1.6	77 – 85	The Complex Number System
3	01/31-02/01	2.1	97 – 111	Linear Equations in One Variable Including Absolute Value
		2.2	112 - 121	Linear Inequalities in One Variable
		2.3	122 – 136	Quadratic Equations in One Variable
		2.3	122 – 136	Quadratic Equations in One Variable
4	02/07-02/08	2.4	137 – 142	Higher Degree Polynomial Equations
		2.5	143 – 157	Rational Expressions and Equations
5	02/14-02/15	2.6	158 – 163	Radical Equations
		Review		Review
		Exam #1		Exam #1 (Sections 1.3 – 1.6, 2.1, 2.3 – 2.6)
6	02/21-02/22	3.1	175 – 188	The Cartesian Coordinate System
		3.2	189 – 196	Linear Equations in Two Variables
		3.3	197 – 214	Forms of Linear Equations
		3.4	215 – 222	Parallel and Perpendicular Lines
		3.5	223 - 234	Linear Inequalities in Two Variables
7	02/28-03/01	4.1	253 – 270	Relations and Functions
		4.2	271 – 286	Linear and Quadratic Functions
		4.3a	287 – 303	Other Common Functions
		4.4	304 – 321	Transformations of Functions
8	03/07-03/08	4.4	304 – 321	Transformations of Functions
		4.5	322 – 335	Combining Functions
		4.6	336 – 348	Inverses of Functions
		Review		Review
18		Exam #2		Exam #2 (Sections 3.1 – 3.5, 4.1 – 1.6)