Angelina College – Division of Science and Mathematics
MATH 1314 – College Algebra
Instructional Syllabus – Fall 2025 (Online)

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.

BASIC COURSE INFORMATION

MATH 1314 – College Algebra: In-depth study and applications of polynomial, rational, radical, exponential, and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Three lecture hours each week. Prerequisite: Meet TSI college readiness standard for Mathematics or equivalent.

Instructor: Kelly Ward Office Location and Hours: Meeting location and time by appointment
Phone: 409-224-0272 Email Address: kward@angelina.edu or kward@brookelandisd.net
Although I endeavor to respond quickly to email and texts, kindly allow 24 hours for my response.

INTENDED STUDENT OUTCOMES

Core Objectives Required for this Course (assessed with embedded test questions and other assignments)

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

Course Learning Outcomes for all Sections (assessed with embedded test questions)

- ✓ Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.
- ✓ Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.
- ✓ Apply graphing techniques.
- ✓ Evaluate all roots of higher degree polynomial and rational functions.
- ✓ Recognize, solve and apply systems of linear equations using matrices.

MATERIALS

- ✓ *College Algebra*, Jay Abramson (OpenStax), ISBN: 978-1-938168-38-3; Free online at https://openstax.org/details/books/college-algebra
- ✓ Access to Edfinity (code purchased online or at AC bookstore) – REQUIRED
- ✓ Graphing calculator: A graphing calculator is required. The TI-84 graphing calculator will be used by the instructor in video lectures. You may NOT use a calculator with CAS (such as TI-89, TI-92) on tests.

ATTENDANCE

MATH 1314 is fully online. To receive credit for attendance, you must log into MATH 1314 in Blackboard at least once per week AND spend at least 30 minutes in Edfinity each week. Attendance is required per Angelina College Policy and will be recorded every week. Any student who misses 2 or more "weeks" of work (as described above) may be dropped from the class. *During your school's official week-long BREAKS, you do not have to log into Blackboard or complete work in Edfinity to be counted present.*

TIME COMMITMENT

College Advisors recommend that students spend an additional two hours per credit hour each week for studying/completing assignments. Thus, you should expect to spend at least nine hours per week (including watching the videos and completing assignments) to experience success in MATH 1314.

EVALUATION AND GRADING

Your grade will be assessed by the following:

- ✓ Watching the video lectures is absolutely crucial to your thorough understanding of the material. Reviewing the material in your online textbook before watching the video lectures is recommended.
- ✓ Four tests which account for 75% of the final average (the 4th test is the comprehensive final exam)
- ✓ No make-up tests without prior arrangement will be allowed. The grade on the final exam can replace any one missed test or the lowest test grade during the semester.
- ✓ You will only be allowed to use a graphing calculator and the formula chart provided by your instructor on the exams.
- ✓ Assignments on Edfinity which account for 20% of the final average
- ✓ Core Assessment administered in Blackboard which counts for 5% of the final average
- ✓ Missing 2 weeks of assignments may result in an instructor drop.

STUDENT CONDUCT

- ✓ A positive environment for learning will be maintained by students being courteous to each other and to the instructor. Behavior that distracts from the learning environment will result in a warning and will result in further action if continued.
- ✓ Regular attendance is expected as per college policy.
- ✓ Cheating is not tolerated as per Angelina College policy and may result in expulsion from the course. Students may not access cell phones or electronic devices other than an approved calculator during tests. Accessing non-approved devices will be regarded as cheating and will result in a zero for the test which will not be eligible for score replacement. Plagiarism is considered cheating.
- ✓ AI programs such as ChatGPT, Bard, Snapchat AI, and Photomath may be used to aid in learning the material but cannot be used during tests.
- ✓ Often, students learn from working with peers. You are encouraged to discuss assignment problems and their solutions with classmates. However, it is NOT permissible to copy solutions from another student. Rule of Thumb for assignments (not tests): If discussing a problem with a peer helps you understand it, you may submit the solution for grading. It is NOT permissible to discuss any aspect of any test until ALL students have completed the test. Wait until at least the Monday after the test due date to discuss a test with anyone else.

INSTITUTIONAL POLICIES

This course conforms to the policies of AC as stated in the Angelina College Handbook. For detailed information on Angelina Institutional Policies, see the Concourse Syllabus in Blackboard. You will find information on Institutional Attendance Policy, Educational Accommodations, Notice of Non-Discrimination, Technology Requirements, Password Management, Syllabus Modification, Academic Integrity, Course Assistance, Technical Support, Tutoring, Testing Center, Roadrunner Central, Roadrunner Market, Grade Appeals, Student Handbook, AC Library, MyAC Portal, Campus Security, and Angelina College Public Health Resource Center.

MATH 1314 COURSE OUTLINE

Please review the material in the online textbook for each assigned section BEFORE watching the lecture video and completing assigned problems. **The lecture videos were recorded live, so they are the length of a face-to-face course; feel free to watch them in chunks if the full length feels intimidating.**

Lesson	Date	Sections	Description
Week 1	8.18 – 8.24.25	Setup 1.2 1.3	Syllabus, TI-84s, OpenStax, Edfinity, Blackboard, Collaborate Exponents and Scientific Notation Radicals and Rational Exponents Due 8.31.25; Late by 9.28.25
Week 2	8.25 – 8.31.25	1.4 1.5	Polynomials Factoring Polynomials Due 8.31.25; Late by 9.28.25
Week 3	9.2 – 9.7.25	2.2, 2.3 2.7	Linear Equations Linear Inequalities Due 9.7.25; Late by 9.28.25
Week 4	9.8 – 9.14.25	2.4 2.5	Complex Numbers Quadratic Equations Due 9.14.25; Late by 9.28.25
Week 5	9.15 – 9.21.25	**Project** 2.6	**Project** **Project Due 10.5.25** Other Types of Equations Due 9.21.25; Late by 9.28.25
Week 6	9.22 – 9.28.25	1.6, 2.2	Rational Expressions and Equations Due 9.28.25
Week 7	9.29 – 10.5.25	**Test 1** 2.1 2.2	**Test 1 (Sections 1.2-1.6, 2.2-2.7)** **Test 1 Due 10.3.25 4pm** Coordinate System and Linear Equations in Two Variables Operations with Functions and Composition Due 10.5.25; Late by 10.26.25
Week 8	10.6 – 10.12.25	3.1 3.2, 3.3 3.4	Functions and Function Notation Domain and Range; Increasing and Decreasing Operations with Functions and Composition Due 10.12.25; Late by 10.26.25
Week 9	10.13 – 10.26.25	 3.5 3.7	San Augustine Fall Break 10.13 – 10.17 Other students may choose either week for a MATH1314 Fall Break. Transformations Inverse Functions Due 10.26.25
Week 10	10.27 – 11.2.25	**Test 2** 5.1	**Test 2 (2.1-2.2, 3.1-3.5, 3.7)** **Test 2 Due 10.31.25 4pm** Quadratic Functions Due 11.2.25; Late by 11.16.25
Week 11	11.3 – 11.9.25	5.2, 5.3 5.4, 5.5	Power Functions and Polynomials Dividing Polynomials and Zeros of Polynomials Due 11.9.25; Late by 11.16.25
Week 12	11.10 – 11.16.25	5.6 **Test 3**	Rational Functions (Learn before Test 3) Due 11.16.25 **Test 3 (5.1-5.6)** **Test 3 Due 11.14.25 4pm**
Week 13	11.17 – 11.23.25	6.1, 6.2 6.3, 6.4	Exponential Functions and Their Graphs Log Functions and Their Graphs Due 11.23.25; Late by 12.7.25
	11.24 – 11.30.25		Thanksgiving Break
Week 14	12.1 – 12.7.25	6.5 6.6 7.7	Log Properties Exponential and Log Equations Solving Systems of Equations Using Matrices Due 12.7.25
Week 15	12.8 – 12.9.25	**Final Exam**	**Comprehensive Final Exam** **Due 12.9.25 4pm**