



Algebraic Reasoning (ALGREA) B Syllabus

Course Name

ALGREA B

Algebraic Reasoning – Semester B

Course Information

ALGREA B is the second semester of this two-semester course.

This course helps students striving to meet college entrance requirements and post-secondary training programs. This multi-mode course allows learners to create their own pace and path through developmental mathematics. Each learner may begin a unit by taking an adaptive pre-assessment that directs them to a customized path through the content needed to close their proficiency gaps. The course offers video, audio, interactive simulations, and other instructional approaches that engage a variety of learning styles and attitudes.

Course Delivery Method

Online

Contacting Your Instructor

You may contact your instructor through the Blackboard messaging system. Technical support is available 24/7 at www.k12.ttu.edu.

Course Objectives

After completing this course, you should be able to:

1. demonstrate a solid base for fundamental math skills (arithmetic);
2. establish a comfort level working with variables, equations, and graphs (beginning Algebra);
3. develop critical thinking for more complex problem solving (intermediate Algebra); and

4. expand and strengthen mathematics knowledge in geometry, statistics, and trigonometry.

ALGREA addresses the required Texas Essential Knowledge and Skills (TEKS). These can be found at the [Texas Education Agency](http://www.tea.state.tx.us) website.

Textbook and Materials

There is no required text or special materials to purchase for this course.

Technical Requirements

- Internet access – preferably high speed (for accessing Blackboard)
- Email
- Word processing software such as Microsoft Word
- Adobe Reader (download from [Adobe.com](http://adobe.com))
- Audio and video capabilities (for watching/listening to course content)
- PDF app (free options available)

Technical Skill Requirements

Be comfortable with the following:

- using a word processor
- Internet search engines and browsers
- creating PDFs (see **Requirements for Creating PDFs** in the Syllabus section of your course)

Course Organization

This course consists of nine units, a midterm exam, and a final exam. Each unit contains the following:

- Introduction and Instructions
- Learning Objectives and Curriculum Standards
- Pre-Assessment of Unit Material
- Learning Activities
- Assignments

Each unit includes several activities that present content knowledge. Each unit also includes multiple graded assignments to ensure that you learn the content that has been presented in the activities. Some of the assignments are automatically-graded quizzes, and some are written assignments or activities that your instructor will grade. Be sure you read all instructions carefully and ask your instructor for help if something is not clear.

Course Outline

Please note that some assignments will be hidden from you when you start the course. As you move through the units and complete assignments, more will unlock for you.

Unit	Topic	Approximate Time for Completion
Unit 11	Exponents and Polynomials	One week
Unit 12	Factoring	Two weeks
Unit 13	Graphing	Two weeks
Unit 14	Systems of Equations and Inequalities	Two weeks
Unit 15	Rational Expressions	Two weeks
Midterm	Units 11-15	
Unit 16	Radical Expressions and Quadratic Equations	Two weeks
Unit 17	Functions	Two weeks
Unit 18	Exponential and Logarithmic Functions	Two weeks
Unit 19	Trigonometry	Two weeks
Final Exam	Units 16-19	

Assignment Schedule

Each of the following must be completed to complete the course. Items with an asterisk (*) indicate that these are summative assessments for the course.

Unit	Weeks	Assignments
11	1	Checkpoint 1 (Non-graded) Unit 11 Checklist Assignment Unit 11 Quiz
12	2-3	Unit 12 Checklist Assignment Unit 12 Quiz
13	4-5	Unit 13 Checklist Assignment Unit 13 Quiz Checkpoint 2 (Non-graded)
14	6-7	Unit 14 Checklist Assignment Unit 14 Quiz

Unit	Weeks	Assignments
15	8-9	Unit 15 Checklist Assignment Unit 15 Quiz
Midterm		Midterm Discussion *Midterm Exam
16	10-11	Unit 16 Checklist Assignment Unit 16 Quiz
17	12-13	Unit 17 Checklist Assignment Unit 17 Quiz
18	14-15	Unit 18 Checklist Assignment Unit 18 Quiz
19	16-17	Unit 19 Checklist Assignment Unit 19 Quiz Checkpoint 3 (Non-graded)
		Final Exam Discussion Final Exam

Course Credit

The course grade will be calculated as follows:

- 50% coursework average;
- 50% summative assessment average, including the final exam;
- A passing course grade is 70 or higher.

Students must attempt all assignments in the course. The final exam will not be available until all assignments have been accepted and graded by the teacher.

Students who score below 70% on the final exam will be eligible for one re-exam opportunity.

Coursework

The graded assignments within each unit are formative in nature. This means that they are designed to assist you in applying and demonstrating the unit concepts, as well as identifying areas in which you need additional review. You may use all the unit's learning activities to assist you as you complete the graded assignments.

Summative Assessments

Summative assessments are those that allow you to demonstrate mastery of the course objectives. For summative assessments, you will NOT be allowed to use the learning

materials. These are opportunities for you to show what you have learned by that point in the course. Summative assessments may be proctored using the online proctoring system Proctorio. Information about Proctorio is provided in **Remote Proctoring** in the Syllabus section of your course. The summative assessments for this course are as follows:

- Summative Assessments **(20% of Course Grade)**
 - Midterm Exam
- Summative Final Exam **(30% of Course Grade)**

Course Completion

- Students may not complete the course in less than 30 days.
- All courses expire six months after the enrollment date.

Academic Integrity

It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and high standard of integrity. The attempt of students to present as their own any work not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offenders liable to serious consequences, possibly suspension.

“Scholastic dishonesty” includes, but is not limited to, cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, and any act designed to give unfair academic advantage to the student (such as, but not limited to, submission of essentially the same written assignment for two courses without the prior permission of the instructor) or the attempt to commit such an act.

Student Expectations

You will be expected to log into the Blackboard course regularly to be aware of possible announcements/reminders and to pace your progress in the course.

Students are expected to maintain an online environment conducive to learning, which includes “netiquette” (Internet etiquette). Please review the basic rules for [Online Discussion Netiquette](#). Ensure that your email messages, discussion board postings, and other electronic communications are thoughtful and respectful. Diverse opinions are welcome in this course, and you are expected to demonstrate an open mind and courtesy when responding to the thoughts and ideas of others.

The following are prohibited:

- making offensive remarks in email or the discussion board;
- using inappropriate language or discussing inappropriate topics online;
- spamming;
- hacking;
- using TTU or Blackboard email or discussion boards for commercial purposes;

- using all caps (considered shouting in online communications); and
- cyber-bullying or online harassment of any type.

Inappropriate behavior shall result in consequences ranging from a request to correct the problem, to removal from the course or even the university, depending on the severity of the behavior. Disciplinary actions will be taken according to the TTU K-12 Student Handbook.

Communication

- You can expect a reply from your instructor within 2 business days.
- Use the Blackboard Course Messages tool for sending messages to your instructor.

Submitting Assignments

You will submit all assignments through the Blackboard Assignment Tool, rather than by mail or email.

Technical Difficulties

Getting Help

For student assistance with Blackboard, visit [TTU K-12 Support](#).

Computer Problems

A working computer is necessary for online coursework. Computer problems will not be accepted as a valid reason for failure to complete course activities within the allotted time frame. Identify a second computer, before the course begins, that you can use if you experience computer problems.

Server Problems

When the Blackboard server needs to be taken down for maintenance, the Blackboard administrator will post an announcement in your course informing you of the time and date. If the server experiences unforeseen problems, your course instructor will notify you.

Lost or Corrupted Files

You must keep/save a copy of every project/assignment on an external disk or personal computer. In the event of any kind of technology failure (e.g., Blackboard server crash or virus infection, students' own computer problems, loss of files in cyberspace, etc.) or any disputes, the instructor may request or require you to resubmit the files. In some instances, the instructor may need to open another attempt within Blackboard, so communication with your instructor is critical in these circumstances.