Course Syllabus

I. **Course Number: Math 0302**

II. **Course Title: Intermediate Algebra**

III. **Instructor: Cathryn Diaz**

IV. **Instructor contact: cdiaz@tamut.edu**

V. **Date/Time: Tueday/Thursday 5:30-6:45pm**

VI. **Semester Credit Hours: 3**

VII. **Course Description:** This course is designed to provide an intensive overview/review of intermediate algebraic topics that include rational expressions and equations, linear equations and inequalities, radicals, quadratic equations, graphs, and applications. This course is intended for students who place below the minimum score on entrance assessment test in mathematics, but between 42-49 Asset; 62-68 Compass; 89-97 Accuplacer; or 260-269 THEA

VIII. **Course Delivery Method:** Face to face

IX. **Required Textbooks/Resources:** *BEGINNING AND INTERMEDIATE ALGEBRA PLUS MYMATHLAB STUDENT ACCESS KIT*; Martin-Gay 5th Edition; Pearson Education ISBN: 0321729358

Required Other Course Materials: Basic Function Calculator recommended

X. **Student Learning Outcomes:**

Upon completion of the course, students will be able to:

- Identify equations.
- Solve equations.
- Identify linear equations.
- Solve linear equations.
- Solve linear inequalities.
- Calculate radicals.
- Solve quadratic equations.
- Analyze graphs and applications.
- Calculate Domain and Range.
- Calculate equations of lines.
- Solve systems of equations in two variables.
- Solve systems of inequalities.
- Solve rational expressions.
- Solve radical expressions.
- Solve exponential and logarithmic functions.
- Apply techniques of problem solving and critical thinking.

- Apply current technologies including Blackboard, current software, and calculator.

The Texas Higher Education Coordinating Board adopted Exemplary Educational Objectives (EEOs) to establish a common knowledge thread through the courses taught within the Texas Core Curriculum. The Mathematics EEOs are integrated into the Student Learner Outcomes below:

- To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations.
- To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.
- To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.
- To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.
- To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.
- To recognize the limitations of mathematical and statistical models.
- To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.

XI. Course Outline: Week 1-3: Chapter 4-Systems of Linear Equations
Week 5-6: Chapter 6-Factoring Polynomials
Week 7-9: Chapter 7-Rational Expressions
Week 10-12: Absolute Value Equations and Inequalities
Week 13-15: Radical Expressions and Equations

XII. Methods of Evaluation:

Tests: There will be five 100-point tests. Test dates will be announced in class at least two days prior to the date of the test.

Quizzes: Unannounced and announced quizzes will be given at the discretion of the instructor. Quizzes may be given in class or online. Quizzes, if missed, cannot be made-up. A missed quiz results in a score of zero for that quiz.

Homework: Homework assignments will be assigned daily and collected randomly. Homework is an important learning tool and should be completed in a timely manner! Homework not completed by the Due Date cannot be made up!

Lab: Students are expected to spend one hour a week in the Student Success Center working on class materials.

Final Exam: There will be a 100-point departmental comprehensive final examination. There will be no make up for the final examination.

Final Grade:

The Final Grade of the course depends on the following percentages:

40%-Tests

40%-Final Exam

20%-Homework/Quizzes

XIII. Grading Scale:

AE = 90-100%, BE = 80-89%, CE = 70-79%, FE = 0-69%

Include the following required statements in each course syllabus.

XIII. Disability Accommodations: Students with disabilities may request reasonable accommodations through the A&M-Texarkana Disability Services Office by calling 903-223-3062.

XIV. Academic Integrity: Academic honesty is expected of students enrolled in this course. Cheating on examinations, unauthorized collaboration, falsification of research data, plagiarism, and undocumented use of materials from any source constitute academic dishonesty and may be grounds for a grade of 'F' in the course and/or disciplinary actions. For additional information, see the university catalog.

XV. A&M-Texarkana Email Address: Upon application to Texas A&M University-Texarkana an individual will be assigned an A&M-Texarkana email account. This email account will be used to deliver official university correspondence. Each individual is responsible for information sent and received via the university email account and is expected to check the official A&M-Texarkana email account on a frequent and consistent basis. Faculty and students are required to utilize the university email account when communicating about coursework.

XVI. Drop Policy: To drop this course after the census date, a student must complete the Drop/Withdrawal Request Form, located on the University website (http://tamut.edu/Student-Support/Registrar/Dropping.html) or obtained in the Registrar's Office. The student must submit the signed and completed form to the instructor of each course indicated on the form to be dropped for his/her signature. The signature is not an "approval" to drop, but rather confirmation that the student has discussed the drop/withdrawal with the faculty member. The form must be submitted to the Registrar's office for processing in person, email Registrar@tamut.edu, mail (7101 University Ave., Texarkana, TX 75503) or fax (903-223-3140). Drop/withdraw forms missing any of the required information will not be accepted by the Registrar's Office for processing. It is the student's responsibility to ensure that the form is completed properly before submission. If a student stops participating in class (attending and submitting assignments) but does not complete and submit the drop/withdrawal form, a final grade based on work completed as outlined in the syllabus will be assigned.

DEVELOPMENTAL EDUCATION DROP POLICY: A student enrolled in a developmental education course(s) may not drop the course(s) without facing a forced withdrawal from the university. A student who has missed a total a four (4) class meetings may be administratively dropped by the instructor of the course at least seven (7) days prior to the last day to drop a course for the semester or session. This letter will include language regarding the possibility of a forced withdrawal if the administrative drop is not rescinded and that he/she will incur any necessary financial penalty.

Time limits: Students who have not completed all TSI requirements within 27 attempted SCH at A&M-Texarkana may be enrolled in only Developmental Education Courses until TSI requirements are met. Students needing additional time to meet TSI completion requirements can appeal to the Developmental Education Committee where decisions will be made on a case by case basis.